NUCLEAR PHYSICS

Journal devoted to the experimental and theoretical study of the fundamental constituents of matter and their interactions

Editor: **L. Rosenfeld - Copenhagen**

Associate editors: H. H. Barschall, Madison; D. M. Brink, Oxford; T. E. O. Ericson, Cern; M. Gourdin, Orsay; G. Källén, Lund; Z. Koba, Copenhagen; H. J. Lipkin, Rehovoth; D. R. O. Morrison, Cern; O. Nathan, Copenhagen; J. Reignier, Brussels; J. Rollnik, Bonn; H. P. C. Rood, Groningen; W. Rühl, Cern; J. Sacton, Brussels; H. Schopper, Karlsruhe; B. Stech, Heidelberg; C. van der Leun, Utrecht; A. Winther, Copenhagen

Technical Editor: **W. Hass, Copenhagen**

MASTER INDEX

VOLUMES A101—A110

AUGUST 1967—MARCH 1968

LAST NUMBER OF VOLUME A110

NORTH HOLLAND

AMSTERDAM

MASTER INDEX

VOLUMES A101—A110

(August 1967—March 1968)

© North-Holland Publishing Company, Amsterdam, 1969. All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of the Copyright owner.

AUTHOR INDEX

ABDUL-MALEK, A. and R. A. NAUMANN, Levels in ^{134}Ba populated by the decay of ^{134}Cs A106 (1968) 225

ABDUL-MALEK, A. and R. A. NAUMANN, Energy levels in some doubly even barium isotopes A108 (1968) 401

ABECASIS, S. M., *see* BOSCH A108 (1968) 209

ADAM, I., K. S. TOTH and R. A. MEYER, Investigation of gamma rays in the decay chain ^{149}Gd → ^{149}Eu → ^{149}Sm A106 (1968) 275

ADAMS, A., *see* DANIELS A110 (1968) 339

AFANASYEV, N. G., *see* SHEVCHENKO A101 (1967) 187

AGIN, G. P., C. E. MANDEVILLE and V. R. POTNIS, Nuclear energy states of ^{153}Eu A105 (1967) 698

AGIN, G. P., *see* MEGLI A107 (1968) 217

AJZENBERG-SELOVE, F., *see* EVANS A102 (1967) 237

ALEXANDER, P., Low-energy gamma-ray intensities in the decay of $^{152, 154, 155, 156}$Eu A108 (1968) 145

ALLARDYCE, B. W., *see* DALLIMORE A108 (1968) 150

AMOS, K. A., Antisymmetry in distorted-wave calculations of inelastic nucleon scattering A103 (1967) 657

ANDERSON, R., *see* MACDONALD A108 (1968) 6

ANDREEFF, A., R. KÄSTNER, P. MANFRASS, M. BONITZ, J. BORGGREEN and N. J. S. HANSEN, The Ω-forbidden decay of the 4.1 μs isomeric state in ^{170}Tm A102 (1967) 241

ANDREEFF, A., *see* HAGEMANN A109 (1968) 407

ANDREEFF, A., *see* MANFRASS A102 (1967) 563

ANDREEFF, A., *see* BONDARENKO A102 (1967) 577

ANDREWS, P. T., P. G. BUTLER, A. CHRISTY, A. N. JAMES, P. KIRKBY, B. G. LOWE and B. W. RENWICK, Measurement of the production cross section of ^{11}C from natural carbon for 385 MeV protons A109 (1968) 689

ANTMAN, S., H. PETTERSSON and Y. GRUNDITZ, Negatons and conversion electrons from the decay of ^{95}Nb A110 (1968) 289

ANTMAN, S., *see* PETTERSSON A108 (1968) 124

ANTOLKOVIĆ, B., *see* MILJANIĆ A106 (1968) 401

ANYAS-WEISS, N., *see* AZUMA A109 (1968) 577

ARDITI, M., H. DOUBRE, M. RIOU, D. ROYER et C. RUHLA, Réactions (p, 2p) à 156 MeV (III). ^{19}Na, ^{24}Mg, ^{29}Si, ^{64}Zn, ^{75}As et ^{89}Zr A103 (1967) 319

ARENHÖVEL, H., *see* GREINER A107 (1968) 225

ARIMA, A., S. COHEN, R. D. LAWSON and M. H. MACFARLANE, A shell-model study of the isotopes of O, F, and Ne A108 (1968) 94

ARVIEUX, J., R. BEURTEY, J. GOUDERGUES, B. MAYER, A. PAPINEAU et J. THIRION, Mesure des polarizations vectorielle et tensorielles des deutons de 21.7 MeV diffusés élastiquement par des protons A102 (1967) 503

ARVIEUX, J., Analyse en déphasages des sections efficaces et polarisations dans la diffusion élastique photon-deuton A102 (1967) 513

ASHERY, D., N. BAHCALL, G. GOLDRING, A. SPRINZAK and Y. WOLFSON, Lifetime measurements of some rotational levels by a new recoil method (II) A101 (1967) 51

ASHGAR, M., C. M. CHAFFEY and M. C. MOXON, The neutron resonance parameters and average capture cross section of ^{165}Ho A108 (1968) 535

ASLANIDES, E., *see* GORODETZKY A109 (1968) 417

ASSIMAKOPOULOS, P. A. and N. H. GANGAS, The ^{10}B + d → α + α + α reaction . . A108 (1968) 497

ASSOUSA, G. E., *see* EDWARDS A107 (1968) 170

AUBLE, R. L., *see* BERZINS A109 (1968) 316

AUDIAS, A., *see* CARLOS **A107** (1968) 436

AULD, E. G., D. G. CRABB, J. G. MCEWEN, L. BIRD, C. WHITEHEAD and E. WOOD, 63 MeV deuteron scattering on C, Al and H **A101** (1967) 65

AZUMA, R. E., N. ANYAS-WEISS and A. M. CHARLESWORTH, Lifetime of the 3.163 MeV level of ^{35}Cl **A109** (1968) 577

BAADE, N., *see* VIGNAU **A110** (1968) 56

BACHNER, D., R. SANTO, H. H. DUHM, R. BOCK and S. HINDS, Level structure of ^{49}V deduced from ^{50}Cr(t, α) and ^{48}Ti(^{3}He, d) reactions **A106** (1968) 577

BÄCKLIN, A., B. FOGELBERG and S. G. MALMSKOG, Levels and transition rates in ^{198}Au **A103** (1967) 337

BAEDECKER, P. A. and W. B. WALTERS, Decay schemes of 42 min ^{125}Sn and 10 min ^{125m}Sn **A107** (1968) 449

BAHCALL, N., *see* ASHERY **A101** (1967) 51

BALASHOV, V. V. and D. V. MEDONIYA, On the quasi-elastic mechanism of the (α, 2α) reaction at low and intermediate energies **A107** (1968) 369

BALDERMAN, J., *see* MOREH **A107** (1968) 236

BARANGER, E. U., *see* CLEMENT **A108** (1968) 27

BARANGER, M. and K. KUMAR, Nuclear deformations in the pairing-plus-quadrupole model (II). Discussion of validity of the model **A110** (1968) 490

BARANGER, M., *see* KUMAR **A110** (1968) 529

BARDOLLE, G., *see* CABÉ **A102** (1967) 92

BARNARD, E., J. A. M. DE VILLIERS, C. A. ENGELBRECHT and D. REITMANN, Inelastic scattering of fast neutrons from ^{197}Au **A107** (1968) 612

BARNARD, R. W. and G. D. JONES, A study of the nuclear structure of ^{60}Ni by the ^{58}Co(^{3}He, d)^{60}Ni and ^{60}Ni(p, p′)^{60}Ni reactions **A106** (1968) 497

BARNARD, R. W. and G. D. JONES, A study of the nuclear structure of ^{28}Si by the ^{27}Al(^{3}He, d)^{28}Si reaction **A108** (1968) 641

BARNARD, R. W. and G. D. JONES, A study of the nuclear structure of ^{29}Si by the ^{28}Si(p, p′)^{28}Si reaction **A108** (1968) 655

BARRETT, B. R., Higher-order corrections to collective particle-hole excitations using Green function techniques **A109** (1968) 129

BARROWS, A. W., R. C. LAMB, D. VELKLEY and M. T. MCELLISTREM, Levels of ^{51}V and ^{55}Mn via (n, n′γ) reactions **A107** (1968) 153

BARTOLINI, W., *see* THOMAS **A106** (1968) 323

BARTON, G., What needs explaining in the photodisintegration of ^{3}He? **A104** (1967) 289

BASS, R., C. LEHMANN and U. QUAST, The reaction ^{39}K(d, n)^{40}Ca **A102** (1967) 190

BASSEL, R. H., *see* GROSS **A102** (1967) 673

BEEKHUIS, H. and R. J. VAN DUINEN, Matrix element cancellation in the beta decay of ^{141}Ce and ^{199}Au **A108** (1968) 382

BEER, G. A., *see* HUTCHEON **A107** (1968) 266

BEHOF, A. F., T. H. MAY and W. I. MCGARRY, Polarization of neutrons from the D(d, n)^{3}He reaction below 400 keV **A108** (1968) 250

BEHRENS, H. and W. BÜHRING, *ft*-values of superallowed 0-0 transitions **A106** (1968) 433

BELL, R. A. I., *see* GILL **A106** (1968) 678

BELL, R. A. I., *see* LOPES **A109** (1968) 241

BELOTE, T. A., F. T. DAO, W. E. DORENBUSCH, J. KUPERUS, J. RAPAPORT and S. M. SMITH, Even-parity states of ^{41}Ca by the ^{39}K(^{3}He, p)^{41}Ca reaction **A102** (1967) 462

BELOTE, T. A., W. E. DORENBUSCH and J. RAPAPORT, Excitation of ^{56}Co by two-particle transfer reactions **A109** (1968) 666

BELOTE, T. A., *see* DORENBUSCH **A102** (1967) 681

BELOTE, T. A., *see* DORENBUSCH **A109** (1968) 649

BELOTE, T. A., *see* O'BRIEN **A104** (1967) 609

BELOTE, T. A., *see* RAPAPORT **A109** (1968) 657

BENN, J., E. B. DALLY, H. H. MÜLLER, R. E. PIXLEY, H. H. STAUB and H. WINKLER, Lifetime and energy of the ground state of ^{8}Be **A106** (1968) 296

BENNETT, G. W., *see* FRIEDES **A104** (1967) 294

BENTZ, H. A., R. ENGFER and W. BÜHRING, Elastic electron scattering experiments on Be and C at 53 MeV and their analysis using an improved phase-shift method **A101** (1967) 527
BEN-ZVI, I., P. GILAD, G. GOLDRING, P. HILLMAN, A. SCHWARZSCHILD and Z. VAGER, Precession measurements following Coulomb excitation with oxygen ions (V). Hf ions recoiling into liquid gallium **A109** (1968) 201
BERCAW, R. W., *see* WARNER **A109** (1968) 205
BERÉNYI, D., D. VARGA, B. VASVÁRI and E. BRÜCHER, An upper limit for the positon decay of ^{54}Mn **A106** (1968) 248
BERGGREN, T., On the use of resonant states in eigenfunction expansions of scattering and reaction amplitudes **A109** (1968) 265
BERNTHAL, F. M. and J. O. RASMUSSEN, Influence of Coriolis coupling, pairing and octupole vibration-particle coupling on $\Delta K = -1$ E1 transitions in ^{177}Hf . . . **A101** (1967) 513
BERZINS, G. and R. L. AUBLE, The decay of 9.7 min ^{125}Sn **A109** (1968) 316
BERZINS, G., W. H. KELLY, G. GRAEFFE and W. B. WALTERS, Ge(Li)-NaI(Tl) studies of the decay of ^{117}Te **A104** (1967) 241
BERZINS, G. and W. H. KELLY, Ge(Li)-NaI(Tl) angular correlation studies of gamma cascades in the decay of ^{119m}Te **A104** (1967) 263
BEST, M., *see* MCMILLAN **A105** (1967) 649
BETHGE, K., *see* GÜNTHER **A101** (1967) 288
BETHGE, K., *see* MEIER-EWERT **A110** (1968) 142
BEURTNEY, R., *see* ARVIEUX **A102** (1967) 503
BEYER, L. M. and W. H. KELLY, Conversion electron measurements of transitions following the beta decay of ^{131m}Te **A104** (1967) 274
BHAKAR, B. S. and R. J. MCCARTHY, Nuclear matter calculations using separable potentials **A104** (1967) 283
BHATT, K. H., *see* PARIKH **A103** (1967) 496
BIRBRAIR, B. L., Density matrix approach to the atomic nuclei. Anomalous E1 transitions, para- and orthostates, isobaric analogue states **A108** (1968) 449
BIRD, L., *see* AULD **A101** (1967) 65
BISGÅRD, K. M. and E. VEJE, Inelastic scattering of alpha particles and deuterons on ^{185}Re and ^{187}Re **A103** (1967) 545
BISHOP, G. R., *see* LOMBARD **A101** (1967) 601
BISHOP, G. R., *see* LOMBARD **A101** (1967) 625
BIZZETI, P. G. and A. M. BIZZETI-SONA, Isospin selection rule in the ^{29}Si(d, α)^{27}Al reaction **A108** (1968) 274
BIZZETI, P. G., A. M. BIZZETI-SONA, S. KALBITZER and B. POVH, Lifetime of the lowest $\frac{1}{2}^+$ states in ^{15}N and ^{15}O **A104** (1967) 577
BIZZETI-SONA, A. M., *see* BIZZETI **A104** (1967) 577
BIZZETI-SONA, A. M., *see* BIZZETI **A108** (1968) 274
BJERREGAARD, J. H., O. HANSEN, O. NATHAN, R. CHAPMAN and S. HINDS, The reaction ^{209}Bi(t, α)^{208}Pb **A107** (1968) 241
BJERREGAARD, J. H., O. HANSEN, O. NATHAN, R. CHAPMAN, S. HINDS and R. MIDDLETON, The (t, p) reaction with the even isotopes of Ca. **A103** (1967) 33
BJERREGAARD, J. H., O. HANSEN, O. NATHAN, L. VISTISEN, R. CHAPMAN and S. HINDS, The reactions ^{116,118}Sn(t, p)^{118,120}Sn **A110** (1968) 1
BLAKE, R. S., E. B. PAUL and C. H. SINEX, Angular correlation studies of excited states in ^{25}Mg **A107** (1968) 253
BLAKE, R. S., E. B. PAUL, C. H. SINEX and S. T. EMERSON, Angular correlation studies of excited states in ^{11}C and ^{14}N. **A102** (1967) 305
BLANN, M., *see* PIERCE **A106** (1968) 14
BLATT, S. L., *see* LING **A108** (1968) 221
BLAUGRUND, A. E., A. FISHER and A. SCHWARZSCHILD, Lifetime of three levels in ^{23}Na measured by the Doppler shift attenuation in gases **A107** (1968) 411
BLEULER, E., *see* HEMSKY **A105** (1967) 665
BLIN-STOYLE, R. J. and S. C. K. NAIR, Fermi functions for superallowed beta-decays and the value of G_V **A105** (1967) 640

BLOCH, A., *see* MORGENSTERN **A102** (1967) 602

BLOMQVIST, J., Collective monopole vibrations in closed-shell nuclei **A103** (1967) 644

BLOMQVIST, J. and A. MOLINARI, Collective 0^- vibrations in even spherical nuclei with tensor forces **A106** (1968) 545

BLOOM, S. D., *see* TIRSELL **A103** (1967) 461

BLUMBERG, L. N., see GROSS **A102** (1967) 673

BOCA, I., *see* FLEROV **A102** (1967) 443

BOCHNACKI, Z. and S. OGAZA, Spin polarization effect on the fast allowed beta transitions between deformed odd-mass nuclei **A102** (1967) 529

BOCK, R., *see* BACHNER **A106** (1968) 577

BOCK, R., *see* STOCK **A104** (1967) 136

BODENSTEDT, E., *see* HÜBEL **A107** (1968) 106

BODENSTEDT, E., *see* LIEDER **A106** (1968) 389

BODENSTEDT, E., *see* WEIGT **A106** (1968) 570

BOEHM, F. and E. KANKELEIT, Experiments on parity admixture in nuclear states. **A109** (1968) 457

BOEHM, F., *see* PRIOR **A110** (1968) 257

BOGDAN, D. and I. VĂŢĂ, Correct use of conserved vector current theory in first-forbidden β-decay of ^{170}Tm **A109** (1968) 347

BOGDANOVIĆ, M., M. MLADJENOVIĆ and R. STEPIĆ, Internal conversion M/L and (N+O)/M ratios for E2 transitions **A106** (1968) 209

BOHNE, W., D. HILSCHER, H. HOMEYER, H. MORGENSTERN and J. A. SCHEER, Neutron-proton correlations in the reaction ^{12}C(d, np)^{11}C **A106** (1968) 442

BONDORF, J. P., C. ELLEGAARD, J. KANTELE, H. LÜTKEN and P. VEDELSBY, Elastic scattering of protons at the threshold for the quasi-elastic (p, n) process . . . **A101** (1967) 338

BONDARENKO, W., *see* MANFRASS **A102** (1967) 563

BONDARENKO, W., N. KRAMER, P. PROKOFJEW, P. MANFRASS, A. ANDREEFF und R. KÄSTNER, Untersuchung von ^{175}Yb in der (n, γ) Reaktion **A102** (1967) 577

BONITZ, M., *see* ANDREEFF **A102** (1967) 241

BORCHERS, R. R., *see* CHRISTENSEN **A102** (1967) 481

BORGGREEN, J., *see* ANDREEFF **A102** (1967) 241

BOSCH, H. E., A. J. HAVERFIELD, E. SZICHMAN and S. M. ABECASIS, High-resolution studies in the decay of ^{133}Ba with semi-conductor counters **A108** (1968) 209

BOŠNJAKOVIĆ, B., J. BOUWMEESTER, J. A. VAN BEST and H. S. PRUYS, High-resolution investigation of the reaction ^{35}Cl(p, α_0)^{32}S **A110** (1968) 17

BOŠNJAKOVIĆ, B. and W. BRUYNESTEYN, Partial proton widths of isobaric analogue states in ^{38}Ar **A110** (1968) 233

BOUCHARD, N. and B. ČUJEC, Energy levels of ^{57}Co **A108** (1968) 529

BOUCHEZ, R., *see* LONGEQUEUE **A107** (1968) 467

BOULANGER, J. P., *see* LEGRAND **A107** (1968) 177

BOUTEN, M.-C., *see* BOUTEN **A102** (1967) 322

BOUTEN, M., M.-C. BOUTEN and P. VAN LEUVEN, Projected Hartree-Fock calculations for light nuclei (III). Electromagnetic properties of ^{7}Li **A102** (1967) 322

BOUTET, J., *see* GIZON **A103** (1967) 9

BOUWMEESTER, J., *see* BOŠNJAKOVIĆ **A110** (1968) 17

BRAY, K. H., *see* NURZYŃSKI **A107** (1968) 581

BRETHON, J. P., *see* LEGRAND **A107** (1968) 177

BROGDEN, T. W. P., *see* JARVIS **A108** (1968) 63

BROGLIA, R. A., *see* DÖNAU **A101** (1967) 495

BROGLIA, R. A., P. FEDERMAN, O. HANSEN, K. HEHL and C. RIEDEL, The spectrum of ^{46}Ca and the ^{48}Ca(t, p) reaction **A106** (1968) 421

BROGLIA, R. A., A. MOLINARI and B. SØRENSEN, Spin vibrational 1^+ states in ^{208}Pb. **A109** (1968) 353

BROGLIA, R. A., C. RIEDEL and B. SØRENSEN, Two-nucleon transfer and pairing phase transition **A107** (1968) 1

BROGLIA, R. A. and B. SØRENSEN, Comparison between a boson expansion method and the exact solution in a two-level model **A110** (1968) 241

BROMAN, L. and D. J. PULLEN, Level structure of ^{46}Ti A110 (1968) 161

BROWN, G., J. G. B. HAIGH, F. R. HUDSON and A. E. MACGREGOR, Level positions of some Cu, Zn, Ga and Ge isotopes A101 (1967) 163

BROWN, L., *see* TRÄCHSLIN A101 (1967) 273

BROWN, P. F., J. X. SALADIN, A. A. ROLLEFSON, J. A. BURKE, P. A. CROWLEY and J. R. KERNS, Reaction mechanism of the ^{35}Cl(d, 2p)^{35}S ground state reaction at E_d = 14.5 MeV A107 (1968) 529

BROWNE, C. P., *see* KROEPFL A108 (1968) 289

BRÜCHER, E., *see* BERÉNYI A106 (1968) 248

BRUGE, G., *see* NATHAN A109 (1968) 481

BRUNDIERS, H. J., *see* LIEB A108 (1968) 233

BRUNDIERS, H., *see* RÖPKE A104 (1967) 529

BRUNNER, J. H., *see* LOMBARD A110 (1968) 41

BRUSSAARD, P. J., *see* DIEPERINK A106 (1968) 177

BRUSSAARD, P. J., *see* HEYDE A104 (1967) 81

BRUSSAARD, P. J., *see* GLAUDEMANS A102 (1967) 593

BRUYNESTEYN, W., *see* BOŠNJAKOVIĆ A110 (1968) 233

BUDZANOWSKI, A., K. GROTOWSKI, J. KUŹMIŃSKI, H. NIEWODNICZAŃSKI, A. STRZAŁKOWSKI, S. SYKUTOWSKI, J. SZMIDER and R. WOLSKI, Total reaction cross section and elastic scattering of 24.7 MeV alpha particles in the region of A = 60 nuclei A106 (1968) 21

BUDZIAK, A., *see* KORMICKI A102 (1967) 253

BÜHRING, W., *see* BEHRENS A106 (1968) 433

BÜHRING, W., *see* BENTZ A101 (1967) 527

BURGE, E. J., *see* CALDERBANK A105 (1967) 601

BURGE, E. J., *see* LEWIS A101 (1967) 589

BURGE, E. J., *see* RUSH A104 (1967) 340

BURKE, J. A., *see* BROWN A107 (1968) 529

BURKE, J. A., *see* ROLLEFSON A107 (1968) 545

BUSSIÈRE, A., *see* NATHAN A109 (1968) 481

BUTLER, P. G., *see* ANDREWS A109 (1968) 689

CABÉ, J., M. LAURAT, P. YVON et G. BARDOLLE, Recherches d'une structure intermédiaire dans les sections efficaces totales neutroniques A102 (1967) 92

CALAMAND, A., *see* JEREMIE A105 (1967) 689

CALDERBANK, M., E. J. BURGE, V. E. LEWIS, D. A. SMITH and N. K. GANGULY, The elastic and inelastic scattering of 50 MeV protons by ^{64}Zn, ^{66}Zn, ^{68}Zn and ^{70}Zn A105 (1967) 601

CALVERT, J. M., *see* DANIELS A110 (1968) 339

CAMPBELL, L. E. and G. J. PERLOW, Magnetic moment of the first excited state in ^{139}Cs by the Mössbauer effect A109 (1968) 59

CANNINGTON, P. H., R. J. J. STEWART, B. M. SPICER and M. G. HUBER, The photoneutron cross section of ^{141}Pr A109 (1968) 385

CANTY, M. J. and R. D. CONNOR, The decay of ^{147}Nd. A104 (1967) 35

CAPLAN, H. S., *see* HUTCHEON A107 (1968) 266

CARLOS, P., J. MATUSZEK, A. AUDIAS, B. P. MAIER, N. NIFENECKER, G. PERRIN et R. SAMAMA, Capture radiative de neutrons thermiques dans ^{49}Ti A107 (1968) 436

CARLSON, R. V. and P. J. DALY, Radiative capture mechanisms in heavy nuclei . A102 (1967) 177

CARLSON, R. V. and P. J. DALY, Excitation functions for (^{3}He, γ) and (^{4}He, γ) reactions A102 (1967) 161

CARLSON, R. F., *see* PETERSEN A102 (1967) 145

CAVAIGNAC, J. F., *see* LONGEQUEUE A107 (1968) 467

CHAFFEY, C. M., *see* ASGHAR A108 (1968) 535

CHANG, C.-C., *see* HSU A104 (1967) 677

CHAPMAN, R., *see* BJERREGAARD A103 (1967) 33

CHAPMAN, R., *see* BJERREGAARD A107 (1968) 241

CHAPMAN, R., *see* BJERREGAARD A110 (1968) 1

CHARLESWORTH, A. M., *see* AZUMA A109 (1968) 577

CHAROENKWAN, P., *see* DOTY **A103** (1967) 404
CHEN, H. Y., *see* SMITH **A107** (1968) 639
CHEN, Y. S., S. T. EMERSON, W. R. JACKSON, W. D. SIMPSON and G. C. PHILLIPS, The $^{11}B(p, 2\alpha)^4He$ reaction at the 163 keV resonance **A106** (1968) 1
CHETHAM-STRODE, Jr., A., R. J. SILVA, J. R. TARRANT and I. R. WILLIAMS, The decay of ^{251}Cf **A107** (1968) 645
CHEVILLON, P. L., *see* MORGENSTERN **A102** (1967) 602
CHIAO, T., *see* WANG **A102** (1967) 537
CHIBA, R., *see* WANG **A102** (1967) 537
CHRISTENSEN, P. R., B. HERSKIND, R. R. BORCHERS and L. WESTGAARD, Neutron single-particle states in ^{143}Nd and ^{145}Sm **A102** (1967) 481
CHRISTY, A., *see* ANDREWS **A109** (1968) 689
CIOFI DEGLI ATTI, C., Single-particle wave functions of the ^{13}C nucleus from elastic and quasi-free electron scattering **A106** (1968) 215
CLARK, D. J., *see* SLOBODRIAN **A101** (1967) 109
CLARK, G. J., D. J. SULLIVAN and P. B. TREACY, ^{12}C-α elastic scattering and states of ^{16}O between 9.16 and 12.11 MeV **A110** (1968) 481
CLAUSNITZER, G., R. FLEISCHMANN, G. GRAW, D. PROETEL and J. P. WURM, Study of isobaric analogue resonances in elastic scattering of polarized protons from ^{142}Nd **A106** (1968) 99
CLEMENT, D. M. and E. U. BARANGER, A shell-model calculation of ^{15}F and ^{15}O using the Tabakin interaction. **A108** (1968) 27
CLINE, J. E., Level structure of ^{235}U observed by study of the alpha decay of ^{239}Pu **A106** (1968) 481
COCKE, C. L., Level structure in ^9Be and ^6Li from $^7Li(^3He, p)^9Be$ and $^7Li(^3He, \alpha)^6Li$ **A110** (1968) 321
COHEN, S., *see* ARIMA **A108** (1968) 94
COHEN, S. and D. KURATH, Spectroscopic factors for the 1p shell **A101** (1967) 1
CONDÉ, H., *see* HOPKINS **A107** (1968) 139
CONLON, T. W., R. A. NAUMANN and A. L. MCCARTHY, Hindered E1 transitions in ^{159}Dy, ^{169}Tm, ^{175}Lu, ^{177}Lu and ^{189}W **A104** (1967) 213
CONNOR, R. D., *see* CANTY **A104** (1967) 35
CONNOR, R. D., *see* MACKENZIE **A108** (1968) 81
COOPER, J. A., J. M. HOLLANDER and J. O. RASMUSSEN, Energy levels of ^{99}Nb populated by the decay of ^{99}Mo **A109** (1968) 603
CORLEY, D. M., *see* FRIEDES **A104** (1967) 294
COSACK, M., *see* FELST **A108** (1968) 666
COSMAN, E. R., J. M. JOYCE and S. M. SHAFROTH, A study of the low-lying isobaric analogue states of ^{89}Sr by means of the $^{88}Sr(p, p)$ and (p, p') reactions **A108** (1968) 519
COSMAN, E. R., D. N. SCHRAMM and H. A. ENGE, A study of ^{61}Ni by the $^{59}Co(^3He, p)^{61}Ni$ reaction **A109** (1968) 305
COTTRELL, R. L. A., J. C. LISLE and J. O. NEWTON, Studies of (d, d) and (d, p) reactions with carbon isotopes at low bombarding energies **A109** (1968) 288
COUSSEMENT, R. and L. VAN NESTE, Second-forbidden contributions to allowed isospin hindered $J \to J$ transitions **A102** (1967) 363
COUSSEMENT, R., *see* VAN NESTE **A102** (1967) 369
COVELLO, A. and G. SARTORIS, Collective vibrations in even-mass mercury isotopes **A104** (1967) 189
CRABB, D. G., *see* AULD **A101** (1967) 65
CRAIG, A. G., *see* FORSTER **A101** (1967) 113
CRANNELL, H., *see* FROSCH **A110** (1968) 657
CRANNELL, H., L. R. SUELZLE, F. J. UHRHANE and M. R. YEARIAN, Elastic electron scattering from ^{13}C **A103** (1967) 677
CRASEMANN, B., V. O. KOSTROUN, P. V. RAO and G. STEPHAS, L-electron capture decay of ^{194}Hg **A103** (1967) 145
CRETEN, W. L., R. J. JACOBS and H. M. FERDINANDE, Width of the 3.13 MeV state in ^{21}P **A107** (1968) 347
CROWLEY, P. A., *see* BROWN **A107** (1968) 529
CROWLEY, P. A., *see* ROLLEFSON **A107** (1968) 545

ČUJEC, B., *see* BOUCHARD **A108** (1968) 529

CUZZOCREA, P., E. PERILLO and S. NOTARRIGO, Activation cross sections of Mo isotopes with 14.1 MeV neutrons . . . **A103** (1967) 616

DAHLGREN, S., *see* SUNDBERG **A101** (1967) 481

DALLIMORE, P. J. and B. W. ALLARDYCE, A fluctuation analysis of the reaction ^{31}P (p, α)^{28}Si . . . **A108** (1968) 150

DALLY, E. B., *see* BENN **A106** (1968) 296

DALY, P. J., *see* CARLSON **A102** (1967) 177

DALY, P. J., *see* CARLSON **A102** (1967) 161

DALY, P. J., *see* HOFSTETTER **A106** (1968) 382

DANIELS, T., J. M. CALVERT and A. ADAMS, Some branching ratios in ^{28}Mg . . . **A110** (1968) 339

DANIELS, W. R., D. C. HOFFMAN, F. O. LAWRENCE and C. J. ORTH, Decay of ^{245}Pu. **A107** (1968) 569

DAO, F. T., *see* BELOTE **A102** (1967) 462

DA PROVIDÊNCIA, J., An extension of the random phase approximation . . . **A108** (1968) 589

DA PROVIDÊNCIA, J. and C. M. SHAKIN, Corrections to electromagnetic transition rates due to ground-state correlations . . . **A108** (1968) 609

DARONIAN, D., J. C. FAIVRE, D. GARRETA, J. GOUDERGUES, J. JUNGERMAN, H. KRUG, B. MAYER, A. PAGES, A. PAPINEAU and J. TESTONI, Search for $T = \frac{1}{2}$ states in ^{5}He by elastic scattering of protons on deuterium . . . **A104** (1967) 111

DARRIULAT, P., D. GARRETA, A. TARRATS and J. TESTONI, Differential cross section and polarization in p-α scattering from 22 to 25 MeV . . . **A108** (1968) 316

DAVID, P., *see* STOCK **A104** (1967) 136

DAVIDS, C. N., A study of (α, n) reactions on ^{9}Be and ^{13}C at low energies . . . **A110** (1968) 619

DAVIDSON, M. G., A negative-parity asymmetric model for ^{229}Th. . . . **A103** (1967) 153

DAVIDSON, M. G., Blocking effects in the asymmetric rotor model . . . **A103** (1967) 427

DAVIES, B., The three-nucleon problem with the Hamada potential . . . **A103** (1967) 165

DE BARROS, S., *see* MORGENSTERN **A102** (1967) 602

DEBERTIN, K., H. GÜNTHER and E. RÖSSLE, The reactions ^{27}Al(n, p)^{27}Mg and ^{28}Si(n, p)^{28}Al at neutron energies around 8 MeV . . . **A101** (1967) 473

DEBERTIN, K. and E. RÖSSLE, Search for a bound state of three neutrons . . . **A107** (1968) 693

DE BOER, F. W. N., *see* GOUDSMIT **A104** (1967) 497

DECOWSKI, P., W. GROCHULSKI, A. MARCINKOWSKI, K. SIWEK and Z. WILHELMI, On superconductivity effects in nuclear level density . . . **A110** (1968) 129

DE FRENNE, D., J. DEMUYNCK, K. HEYDE, E. JACOBS, M. DORIKENS, L. DORIKENS-VANPRAET, Decay of ^{139}Pr . . . **A106** (1968) 350

DE FRENNE, D., M. DORIKENS, L. DORIKENS-VANPRAET and J. DEMUYNCK, The high-energy decay of ^{69}Zn . . . **A103** (1967) 203

DE FRENNE, D., K. HEYDE, L. DORIKENS-VANPRAET, M. DORIKENS and J. DEMUYNK, Decay of ^{143}Sm . . . **A110** (1968) 273

DEHNHARD, D., D. S. GEMMELL and Z. VAGER, Heavy-particle emission from the reactions ^{19}F+d and ^{19}F+^{3}He . . . **A104** (1967) 202

DE LLANO, M., *see* LEY-KOO **A107** (1968) 35

DEMIN, A. G., T. FÉNYES, I. MAHUNKA, V. G. SUBBOTIN and L. TRÓN, New mercury isotopes . . . **A106** (1968) 337

DEMUYNCK, J., *see* DE FRENNE **A103** (1967) 203

DEMUYNCK, J., *see* DE FRENNE **A106** (1968) 350

DEMUYNCK, J., *see* DE FRENNE **A110** (1968) 273

DESHPANDE, V. K., *see* LAMBA **A110** (1968) 111

DE SWINIARSKI, R., *see* KOSSANYI-DEMAY **A108** (1968) 577

DEVARE, H. G., *see* TANDON **A102** (1967) 203

DE VILLIERS, J. A. M., *see* BARNARD **A107** (1968) 612

DE VRIES, E., *see* JONKER **A105** (1967) 621

DE WIT, S. A., *see* KONIJN **A102** (1967) 129

DEUTSCH, J. P., *see* VAN NESTE **A102** (1967) 369

DICKENS, J. K. and E. EICHLER, The ^{91}Zr(d, p)^{92}Zr reaction at $E_d = 6.25$ MeV . **A101** (1967) 408

DIEPERINK, A. E. L. and P. J. BRUSSAARD, Shell-model calculations of $1f_{\frac{7}{2}}^{n}$ and $1f_{\frac{7}{2}}^{n+1}\,1d_{\frac{3}{2}}^{-1}$ configurations A106 (1968) 177
DIETZSCH, O., D. WILMORE and P. E. HODGSON, Analysis of the ^{24}Mg(d, n)^{25}Al reaction from 1.38 to 2.8 MeV A106 (1968) 527
DIX, A. D. B., *see* MANI A106 (1968) 251
DJRBASHIAN, V. A., Polarization of nuclei by interaction with electron shells . . . A103 (1967) 177
DÖNAU, F., K. HEHL, C. RIEDEL, R. A. BROGLIA and P. FEDERMAN, Two-nucleon transfer reaction on oxygen and the nuclear coexistence model A101 (1967) 495
DONHOWE, J. M., J. A. FERRY, W. G. MOURAD and R. G. HERB, ^{27}Al(p, γ)^{28}Si resonance widths with study of temperature and contaminant effects A102 (1967) 383
DORENBUSCH, W. E., T. A. BELOTE and J. RAPAPORT, Level structure of ^{49}V . . . A109 (1968) 649
DORENBUSCH, W. E., *see* BELOTE A102 (1967) 462
DORENBUSCH, W. E., *see* BELOTE A109 (1968) 666
DORENBUSCH, W. E., *see* O'BRIEN A104 (1967) 609
DORENBUSCH W. E., J. RAPAPORT and T. A. BELOTE, Stripping transitions in ^{46}Ti(^{3}He, d)^{47}V A102 (1967) 681
DORENBUSCH, W. E., *see* RAPAPORT A109 (1968) 657
DORIKENS, M., *see* DE FRENNE A103 (1967) 203
DORIKENS, M., *see* DE FRENNE A106 (1968) 350
DORIKENS, M., *see* DE FRENNE A110 (1968) 273
DORIKENS-VANPRAET, L., *see* DE FRENNE A103 (1967) 203
DORIKENS-VANPRAET, L., *see* DE FRENNE A106 (1968) 350
DORIKENS-VANPRAET, L., *see* DE FRENNE A110 (1968) 273
DOTY, D. R., J. R. RICHARDSON and J. W. SUNIER, The new radioisotope ^{99}Ag and some measurements on ^{100}Ag A103 (1967) 417
DOTY, D. R., P. CHAROENKWAN, J. W. SUNIER and J. R. RICHARDSON, The radionucleide ^{101}Ag A103 (1967) 404
DOUBRE, H., *see* ARDITI A103 (1967) 319
DOUTRIAUX, D., *see* ST.-PIERRE A102 (1967) 433
DRAGOUN, O. and P. JAHN, M-subshell internal conversion coefficients Comparison of present calculations with experiments for E2 transitions. A101 (1967) 305
DRAKE, D. M., *see* HOPKINS A107 (1968) 139
DRAKE, T. E., *see* HUTCHEON A107 (1968) 266
DRORY, CH., *see* ZIONI A109 (1968) 401
DRUKAREV, G. F. and V. T. IPPOLITOV, Proton polarization in Coulomb stripping A110 (1968) 218
DRYSDALE, N., W. R. PHILLIPS and A. J. P. L. POLICARPO, Fluctuations in the ^{12}C(^{16}O, α)^{24}Mg reaction A102 (1967) 337
DUBOIS, J., A nuclear structure study of ^{22}Na by means of the ^{22}Ne(^{3}He, d)^{23}Na reaction A104 (1967) 657
DUHM, H. H., *see* BACHNER A106 (1968) 577
DUHM, H. H., *see* STOCK A104 (1967) 136
DU TOIT, Z. B., *see* HOUGH A109 (1968) 393
EARWAKER, L. G. and J. H. MONTAGUE, A study of the excited states of ^{11}C up to 8.43 MeV and of the 5.03 and 6.81 MeV levels of ^{11}B by a particle-gamma correlation technique. A109 (1968) 507
EAST, L. V., H. M. MURPHY, Jr. and E. R. LEWIS, Decay of ^{109}Cd A107 (1968) 382
EBERT, R., *see* HASSE A106 (1968) 117
ECCLES, S. F., *see* LUTZ A101 (1967) 241
EDWARDS, S. and G. E. ASSOUSA, Evidence for exchange effects in inelastic scattering processes from angular correlation data A107 (1968) 170
EDWARDS, S., Trapping states in stripping reactions A107 (1968) 523
EDWARDS, S., *see* THOMPSON A105 (1967) 678
EDWARDS, V. R. W., Analysis of 49.6 MeV proton scattering from the ground and first excited states of ^{64}Zn and ^{114}Cd A101 (1967) 17
EICHLER, E., *see* DICKENS A101 (1967) 408

EISENBERG, J. M., *see* HOLDER **A106** (1968) 261

EL-BATANONI, F. and A. A. KRESNIN, Rotational model representation of low-lying excited states in ^{23}Na **A102** (1967) 473

ELBEK, B., *see* GROTDAL **A110** (1968) 385

ELBEK, B., *see* NORDHAGEN **A104** (1967) 353

ELBEK, B., *see* TJØM **A107** (1968) 385

ELBEK, B., *see* VEJE **A109** (1968) 489

ELLEGAARD, C., *see* BONDORF **A101** (1967) 338

EMAN, B., F. KRMPOTIĆ, D. TADIĆ and A. NIELSEN, Analysis of unique beta transitions **A104** (1967) 386

EMERSON, S. T., *see* BLAKE **A102** (1967) 305

EMERSON, S. T., *see* CHEN **A106** (1968) 1

EMERSON, S. T., *see* VALKOVIĆ **A106** (1968) 138

ENDT, P. M. and C. VAN DER LEUN, Energy levels of $Z = 11$-21 nuclei (IV) . . . **A105** (1967) 1

ENDT, P. M., *see* WOLFF **A107** (1968) 332

ENGE, H. A., *see* COSMAN **A109** (1968) 305

ENGE, H. A., *see* SMITH **A107** (1968) 639

ENGELBERTINK, G. A. P., H. LINDEMAN and M. J. N. JACOBS, Investigation of $J \to J$ M1 transitions in ^{38}Ar **A107** (1968) 305

ENGELBRECHT, C. A., *see* BARNARD **A107** (1968) 612

ENGFER, R., *see* BENTZ **A101** (1967) 527

ERKKILA, B. H. and R. B. LEACHMAN, Energy of ^{242}Am and ^{242m}Am fission fragments **A108** (1968) 689

ERRAMUSPE, H. J., Elastic and inelastic proton scattering from ^{46}Ti and ^{48}Ti . . . **A101** (1967) 138

ERRAMUSPE, H. J., Isospin dependence of the nuclear optical potential **A105** (1967) 569

EVANS, J. A. and R. P. J. PERAZZO, The extended two-particle shell-model in light nuclei **A103** (1967) 225

EVANS, K. R. and F. AJZENBERG-SELOVE, Excited states of ^{81}Br **A102** (1967) 237

FAIVRE, J. C., *see* DARONIAN **A104** (1967) 111

FAIVRE, J. C., H. KRIVINE et A. M. PAPIAU, Variations isotopiques des dimensions nucléaires déduites d'une paramétrisation en déphasages de la diffusion élastique de particules α de 44 MeV **A108** (1968) 508

FEDERMAN, P., *see* BROGLIA **A106** (1968) 421

FEDERMAN, P., *see* DÖNAU **A101** (1967) 495

FEDERMAN, P., B. GIRAUD and D. ZAIKIN, Centre-of-mass spuriosity and Hartree-Fock calculations **A102** (1967) 81

FELST, R., M. COSACK, T. GUDEHUS, R. H. SIEMSSEN, J. TEPEL and B. ZEITNITZ, Neutron-gamma correlation studies of the ^{28}Si(d, n)^{29}P reaction at deuteron energies near 3 MeV **A108** (1968) 666

FÉNYES, T., *see* DEMIN **A106** (1968) 337

FERDINANDE, H. M., *see* CRETEN **A107** (1968) 347

FERGUSON, A. T. G., *see* LAWERGREN **A106** (1968) 455

FERGUSON, A. T. G., *see* LAWERGREN **A108** (1968) 325

FERRY, J. A., *see* DONHOWE **A102** (1967) 383

FIEBIGER, N., *see* SIDDIQI **A101** (1967) 673

FINK, R. W., Comparison with theory of experimental values of L/K orbital electron capture ratios for allowed and first-forbidden transitions **A110** (1968) 379

FINK, R. W., *see* RAO **A103** (1967) 385

FISHER, A., *see* BLAUGRUND **A107** (1968) 411

FISHER, P. S., *see* RIMMER **A108** (1968) 561

FISHER, P. S., *see* RIMMER **A108** (1968) 567

FITZ, W., R. JAHR and R. SANTO, Scattering and pick-up reactions with deuterons on Be, B, C, N and O at 11.8 MeV **A101** (1967) 449

FLECK, M., *see* LIEDER **A106** (1968) 389

FLEISCHMANN, R., *see* CLAUSNITZER **A106** (1968) 99

FLEROV, G. N., YU. S. KOROTKIN, V. L. MIKHEEV, M. B. MILLER, S. M. POLIKANOV and V. A. STCHEGOLEV, On the nuclear properties of the isotopes ^{254}103 and ^{257}103 **A106** (1968) 476
FLEROV, G. N., A. A. PLEVE, S. M. POLIKANOV, S. P. TRETYAKOVA, I. BOCA, M. SEZON, I. VÎLCOV AND N. VÎLCOV, A study of the spontaneously fissioning isomer of ^{242}Am through the ^{243}Am (n, γ) reaction **A102** (1967) 443
FOGELBERG, B., *see* BÄCKLIN **A103** (1967) 337
FORD, Jr., J. L. C., K. L. WARSH, R. L. ROBINSON and C. D. MOAK, The ^{63,65}Cu (^{3}He, d)^{64,66}Zn reaction **A103** (1967) 525
FORKER, M., *see* LIEDER **A106** (1968) 389
FORKMAN, B., *see* JONSSON **A107** (1968) 52
FORSTER, J. S., L. L. GREEN, N. W. HENDERSON, J. L. HUTTON, G. D. JONES, J. F. SHARPEY-SCHAFER, A. G. CRAIG and G. A. STEPHENS, The deuteron-nucleus effective interaction and DWBA calculations for the ^{90}Zr(d, p)^{91}Zr reaction . . **A101** (1967) 113
FRAHN, W. E., Quasi-elastic scattering to isobaric analogue states **A107** (1968) 129
FRANSSON, K., H. RYDE, B. HERSKIND, G. D. SYMONS and A. TVETER, Collective states in the odd nucleus ^{169}Tm from inelastic deuteron scattering **A106** (1968) 369
FREDERICK, D. E., On the interpretation of photonuclear angular distributions . **A101** (1967) 250
FREED, N. and P. GOLDHAMMER, Deformed binding fields (II). Deformed wave functions in ^{6}Li arising from the tensor force **A104** (1967) 683
FRICK, G., *see* GORODETZKY **A109** (1968) 417
FRIEDES, J. L., H. PALEVSKY, R. J. SUTTER, G. W. BENNETT, G. J. IGO, W. D. SIMPSON and D. M. CORLEY, Inelastic 1 GeV proton scattering from carbon and oxygen **A104** (1967) 294
FRIEDLAND, E., *see* ROHR **A104** (1967) 1
FRIEDMAN, E., A. GINZBURG, A. A. JAFFE and A. MARINOV, Scattering of protons near thresholds of (p, n) reactions to analogue states **A110** (1968) 300
FROSCH, R. F., R. E. RAND, H. CRANNELL, J. S. MCCARTHY, L. R. SUELZLE and M. R. YEARIAN, Inelastic electron scattering from ^{4}He. **A110** (1968) 657
FUCHS, H., K. GRABISCH, P. KRAAZ and G. RÖSCHERT, States in ^{12}C and ^{14}O investigated by the ^{11}B(d, n) and ^{13}N(d, n) reactions **A105** (1967) 590
FUCHS, H., K. GRABISCH, P. KRAAZ and G. RÖSCHERT, Study of states in ^{25}Al and ^{29}Al by the ^{24}Mg(d, n) and ^{28}Mg(d, n) reactions. **A110** (1968) 65
FUJIWARA, I., *see* OTOZAI **A107** (1968) 427
FUKUZAWA, F., *see* IMANISHI **A101** (1967) 654
FUNK, E. G., *see* KENEALY **A105** (1967) 522
FUNK, E. G., *see* KENEALY **A110** (1968) 561
FUSCHINI, E., C. MARONI, I. MASSA, A. UGUZZONI, G. VANNINI, E. VERONDINI and A. VITALE, The neutron-neutron scattering length from reactions with tritium targets **A109** (1968) 465
GAARDE, C., K. KEMP and P. WILHJELM, Isobaric analogue states of ^{47}Ca **A102** (1967) 1
GALLMANN, A., *see* GORODETZKY **A109** (1968) 417
GANGAS, N. H., *see* ASSIMAKOPOULOS **A108** (1968) 497
GANGULY, N. K., *see* CALDERBANK **A105** (1967) 601
GANGULY, N. K., *see* LEWIS **A101** (1967) 589
GANGULY, N. K., *see* RUSH **A104** (1967) 340
GARRETA, D., *see* DARONIAN **A104** (1967) 111
GARRETA, D., *see* DARRIULAT **A108** (1968) 316
GEBHARDT, D., Korrektureffekte in der Theorie der inneren Bremsstrahlung. . . **A107** (1968) 593
GEMMELL, D. S., *see* DEHNHARD **A104** (1967) 202
GERSCHEL, C., Étude des niveaux excités du ^{139}La. Existence possible de niveaux déformés **A108** (1968) 337
GIANNINI, M., P. OLIVA, D. PROSPERI and G. TOUMBEV, Nuclear resonant scattering of gamma rays in Cu, Sn and Bi **A101** (1967) 145
GILAD, P., *see* BEN-ZVI **A109** (1968) 201
GILL, R. D., J. S. LOPES, B. C. ROBERTSON, R. A. I. BELL and H. J. ROSE, A study of positive-parity states in ^{15}O **A106** (1968) 678

GILL, R. D., *see* LOPES **A109** (1968) 241
GILLET, V., B. GIRAUD and M. RHO, A phenomenological test of the independent quasi-particle model **A103** (1967) 257
GINZBURG, A., *see* FRIEDMAN **A110** (1968) 300
GIORNI, A., *see* LONGEQUEUE **A107** (1968) 467
GIRAUD, B., *see* FEDERMAN **A102** (1967) 81
GIRAUD, B., *see* GILLET **A103** (1967) 257
GIZON, J., Intensités relatives des raies d'électrons Auger K du thulium **A108** (1968) 425
GIZON, J. et J. BOUTET, Spectre d'électrons Auger K du lutétium **A103** (1967) 9
GLAUDEMANS, P. W. M., P. J. BRUSSAARD and B. H. WILDENTHAL, Two-body matrix elements from a modified surface delta interaction **A102** (1967) 593
GLAUDEMANS, P. W. M., *see* WILDENTHAL **A108** (1968) 49
GOLDHAMMER, P., *see* FREED **A104** (1967) 683
GOLDHAMMER, P., J. R. HILL and J. NACHMKIN, *G*-matrix interaction in the nuclear 1p shell **A106** (1968) 62
GOLDRING, G., *see* ASHERY **A101** (1967) 51
GOLDRING, G., *see* BEN-ZVI **A109** (1968) 201
GORDON, G. E., *see* GRAEFFE **A107** (1968) 67
GORDON, G. E., *see* PARSA **A110** (1968) 674
GORODETZKY, S., E. ASLANIDES, A. GALLMANN et G. FRICK, Radioactivité β de ^{19}Ne, ^{23}Mg, ^{25}Si et ^{27}Mg **A109** (1968) 417
GOUDERGUES, J., *see* ARVIEUX **A102** (1967) 503
GOUDERGUES, J., *see* DARONIAN **A104** (1967) 111
GOUDSMIT, P. F. A., J. KONIJN and F. W. N. DE BOER, A study of the decay of 2.5 min ^{189}Re **A104** (1967) 497
GOZEZ, Y., *see* MOREH **A107** (1968) 236
GRABISCH, K., *see* FUCHS **A105** (1967) 590
GRABISCH, K., *see* FUCHS **A110** (1968) 65
GRACE, M. A., *see* MACDONALD **A108** (1968) 6
GRAEFFE, G., *see* BERZINS **A104** (1967) 241
GRAEFFE, G. and G. E. GORDON, Decay of 13.5 h ^{109g}Pd to levels of ^{109}Ag. **A107** (1968) 67
GRAEFFE, G. and A. SIIVOLA, The decay of ^{97}Nb **A109** (1968) 380
GRAEFFE, G., *see* SIIVOLA **A109** (1968) 369
GRANDY, T. B., *see* LEIGHTON **A109** (1968) 218
GRÄSSLER, H., *see* HONECKER **A107** (1968) 81
GRAUE, A., E. JASTAD, J. R. LIEN, P. TORVUND and W. H. MOORE, Energy-level structure of ^{131}Te from the ^{130}Te(d, p)^{131}Te reaction **A103** (1967) 209
GRAUE, A., *see* MOORE **A104** (1967) 327
GRAW, G., *see* CLAUSNITZER **A106** (1968) 99
GRAWE, H., *see* LIEB **A108** (1968) 233
GREEN, L. L., *see* FORSTER **A101** (1967) 113
GREENBAUM, B., A. D. JACKSON, Jr. and R. A. NAUMANN, Measurement of a spin 2 state in ^{102}Ag and the decay of ^{102}Ag **A106** (1968) 193
GREINER, B. and H. ARENHÖVEL, Corrections to the reorientation effect of Coulomb excitation in deformed doubly even nuclei **A107** (1968) 225
GREINER, W., *see* PIEPER **A109** (1968) 539
GRIFFITHS, R. J., Elastic and inelastic scattering of 29 MeV ^{3}He by ^{24}Mg **A102** (1967) 329
GRIFFITHS, R. J., *see* JOHNSON **A108** (1968) 113
GRIFFITHS, R. J., *see* JONES **A107** (1968) 659
GRISMORE, R., Proposed experimental test of the "elementary particle" treatment of complex nuclei **A108** (1968) 1
GROCHULSKI, W., *see* DECOWSKI **A110** (1968) 129
GROENEVELD, A., *see* TJIN A DJIE **A106** (1968) 85
GROSS, E. E., R. H. BASSEL, L. N. BLUMBERG, B. J. MORTON, A. VAN DER WOUDE and A. ZUCKER, Energy dependence of the elastic scattering and polarization of protons on ^{40}Ca. **A102** (1967) 673

GROTDAL, T., K. NYBØ, T. THORSTEINSEN and B. ELBEK, Collective vibrational states in even dysprosium nuclei A110 (1968) 385
GROTOWSKI, K., *see* BUDZANOWSKI A106 (1968) 21
GRUNDITZ, Y., *see* ANTMAN A110 (1968) 289
GRUNDITZ, Y., *see* PETTERSSON A108 (1968) 124
GRUPPELAAR, H., *see* SPILLING A102 (1967) 209
GRUPPELAAR, H. and P. SPILLING, Thermal-neutron capture gamma rays from natural calcium A102 (1967) 226
GUDEHUS, T., *see* FELST A108 (1968) 666
GUILLOT, M., Marie Curie-Sklodowska (1867-1934) A103 (1967) 1
GUJRATHI, S. C., *see* SATPATHY A110 (1968) 400
GULKAROV, I. S., *see* SHEVCHENKO A101 (1967) 187
GÜNTHER, C., and D. R. PARSIGNAULT, The nuclear g-factors of the $\frac{5}{2}^-[523]\frac{7}{2}$ states in ^{237}Np and ^{239}Np, and the level structure of ^{237}Np A104 (1967) 588
GÜNTHER, G., K. BETHGE and K. R. SCHUBERT, Elastic scattering of ^{11}B on ^{11}B . A101 (1967) 288
GÜNTHER, H., *see* DEBERTIN A101 (1967) 473
GUNYE, M. R. *see* KHADKIKAR A110 (1968) 472
GUPTA, R. K., *see* TRAINOR A108 (1968) 257
GUPTA, S. K., *see* IYENGAR A103 (1967) 592
GURD, D. P., *see* LEIGHTON A109 (1968) 218
GURFINKEL, Y., *see* NOTEA A107 (1968) 193
HAEBERLI, W., *see* SCHWANDT A110 (1968) 585
HAGEMANN, U., W. MEILING, A. ANDREEFF, R. KÄSTNER, P. MANFRASS und F. STARY, Ein Ω-verbotener Übergang im ^{169}Tm A109 (1968) 407
HAHN, R. L. and E. RICCI, Interactions of ^{3}He particles with B, N, Na and Be . . A101 (1967) 353
HAHN, R. L., Angular distributions of the recoil nuclei from the reactions ^{12}C(^{3}He, α)^{11}C and ^{12}C(^{3}He, d)^{13}N A101 (1967) 545
HÄHNE, F. J. W., A modification of the Austern-Blair theory and the study of (α, $\alpha'\gamma$) correlation functions A104 (1967) 545
HÄHNE, F. W. J., Inelastic scattering of spin-$\frac{1}{2}$ particles in the Austern-Blair theory A106 (1968) 660
HAIGH, J. G. B., *see* BROWN A101 (1967) 163
HAMILTON, J. H., *see* VAN NOOIJEN A106 (1968) 129
HAMILTON, J. H., *see* ZGANJAR A106 (1968) 449
HANSEN, L. F., *see* LUTZ A101 (1967) 241
HANSEN, N. J. S., *see* ANDREEFF A102 (1967) 241
HANSEN, O., *see* BJERREGAARD A103 (1967) 33
HANSEN, O., *see* BJERREGAARD A107 (1968) 241
HANSEN, O., *see* BJERREGAARD A110 (1968) 1
HANSEN, O., *see* BROGLIA A106 (1968) 421
HARBISON, S. A., F. G. KINGSTON, A. R. JOHNSTON and E. A. MCCLATCHIE, A search for excited states in ^{3}He by the ^{5}He(p, p')^{3}He* reaction A108 (1968) 478
HARCHOL, M., *see* ZIONI A109 (1968) 401
HARVEY, B. G., *see* JARVIS A102 (1967) 625
HASSE, R. W., R. EBERT and G. SÜSSMANN, Effective masses for nuclear fission . . A106 (1968) 117
HASSELGREN, D., *see* SUNDBERG A101 (1967) 481
HAVERFIELD, A. J., *see* BOSCH A108 (1968) 209
HÄUSSER, O., A. RICHTER, W. VON WITSCH and W. J. THOMPSON, Direct and compound nuclear reaction mechanisms in ^{28}Mg(p, p)^{28}Mg A109 (1968) 329
HAYNES, S. K., *see* KRISCIOKAITIS A104 (1967) 466
HECHT, K. T., Five-dimensional quasi-spin. The n, T dependence of shell-model matrix elements in the seniority scheme A102 (1967) 11
HEHL, K., *see* BROGLIA A106 (1968) 421
HEHL, K., *see* DÖNAU A101 (1967) 495
HEMSKY, J. W., E. BLEULER and D. J. TENDAM, Isospin conservation in the ^{40}Ca(d, α)^{38}K reaction A105 (1967) 665
HENDERSON, N. W., *see* FORSTER A101 (1967) 113

HENDRIE, D. L., *see* JARVIS **A102** (1967) 625
HENLEY, E. M., F. C. RICHARDS and D. U. L. YU, The reaction d + ^{3}He → ^{3}He(pp) **A103** (1967) 361
HERB, R. G., *see* DONHOWE **A102** (1967) 383
HERING, W. R., *see* ULRICI **A110** (1968) 281
HERSCOVITZ, V. E., G. JACOB and TH. A. J. MARIS, A remark on nuclear hole states in quasi-free scattering . . . **A109** (1968) 478
HERSKIND, B., *see* CHRISTENSEN **A102** (1967) 481
HERSKIND, B., *see* FRANSSON **A106** (1968) 369
HERSKIND, B., *see* NORDHAGEN **A104** (1967) 353
HERSKIND, B., *see* VEJE **A109** (1968) 489
HERZOG, P., *see* WEIGT **A106** (1968) 570
HEUSLER, A., *see* WIEDNER **A103** (1967) 433
HEYDE, K. and P. J. BRUSSAARD, Unified-model calculations in intermediate coupling with $2d_{\frac{3}{2}}$, $1g_{\frac{7}{2}}$ and $2f_{\frac{7}{2}}$ single-particle orbits . . . **A104** (1967) 81
HEYDE, K., *see* DE FRENNE **A106** (1968) 350
HEYDE, K., *see* DE FRENNE **A110** (1968) 273
HIEBERT, J. C., *see* NEWMAN **A110** (1968) 366
HIGHLAND, G. J. and T. T. THWAITES, The ^{20}Ne(α, γ)^{24}Mg reaction from 3 to 6 MeV . . . **A109** (1968) 163
HILL, A. D., *see* TJIN A DJIE **A106** (1968) 85
HILL, J. R., *see* GOLDHAMMER **A106** (1968) 62
HILLE, P., Lack of evidence for shell effects in the (n, 2n) cross sections . . . **A107** (1968) 49
HILLE, P., *see* SCHEIMBAUER **A102** (1967) 534
HILLMAN, P., *see* BEN-ZVI **A109** (1968) 201
HILSCHER, D., *see* BOHNE **A106** (1968) 442
HINDS, S., *see* BACHNER **A106** (1968) 577
HINDS, S., *see* BJERREGAARD **A103** (1967) 33
HINDS, S., *see* BJERREGAARD **A107** (1968) 241
HINDS, S., *see* BJERREGAARD **A110** (1968) 1
HINRICHSEN, P. F., *see* HOROSHKO **A104** (1967) 113
HINRICHSEN, P. F., M. H. SHAPIRO and D. M. VAN PATTER, Nuclear energy levels of ^{54}Fe from studies of the (p, p'γ) reaction . . . **A101** (1967) 81
HINTERBERGER, F., G. MAIRLE, U. SCHMIDT-ROHR, P. TUREK and G. J. WAGNER, Single nucleon pick-up from ^{13}C and ^{14}N with 52 MeV deuterons . . . **A106** (1968) 161
HIRATATE, Y., *see* TAKEUCHI **A109** (1968) 105
HODGSON, P. E., The complex symmetry term in the nucleon optical potential . . **A103** (1967) 127
HODGSON, P. E., *see* TJIN A DJIE **A106** (1968) 85
HODGSON, P. E., *see* DIETZSCH **A106** (1968) 527
HOFFMAN, D. C., *see* DANIELS **A107** (1968) 569
HOFSTETTER, K. J. and P. J. DALY, The decay of ^{195}Ir and ^{195m}Ir . . . **A106** (1968) 382
HOHENEMSER, C. and R. ROSNER, Half-life of the first excited state of ^{125}Te . . . **A109** (1968) 364
HÖISTAD, B., *see* SUNDBERG **A101** (1967) 481
HOLDER, F. D. and J. M. EISENBERG, Inelastic electron scattering cross sections using a finite nuclear well . . . **A106** (1968) 261
HOLLANDER, J. M., *see* COOPER **A109** (1968) 603
HOLLANDER, J. M., *see* PRUSSIN **A110** (1968) 176
HOMEYER, H., *see* BOHNE **A106** (1968) 442
HONECKER, R. and H. GRÄSSLER, Neutron-neutron coincidence spectra from the ^{2}H(n, 2n)^{1}H reaction at 14.1 MeV . . . **A107** (1968) 81
HOOVER, J. I., *see* RITTER **A110** (1968) 463
HOPKINS, J. C., D. M. DRAKE and H. CONDÉ, Elastic and inelastic scattering of fast neutrons from ^{6}Li and ^{7}Li . . . **A107** (1968) 139
HOROSHKO, R. N., P. F. HINRICHSEN, L. W. SWENSON and D. M. VAN PATTER, ^{58}Ni(p, p'γ)^{58}Ni angular correlation measurements . . . **A104** (1967) 113
HORROCKS, D. L., Search for short-lived isomer of ^{206}Tl . . . **A110** (1968) 238
HOUGH, J. H., Z. B. DU TOIT and W. L. MOUTON, Level widths in ^{31}P . . . **A109** (1968) 393

HOURANY, E., *see* YUASA **A103** (1967) 577
HSU, C. C., *see* WANG **A102** (1967) 537
HSU, Y.-C., C.-Y. HUANG and C.-C. CHANG, Angular distributions of alpha particles from the reaction $^{16}O(n, \alpha)^{13}C$ at $E_n = 14.1$ MeV **A104** (1967) 677
HSUE, S. T., M. U. KIM, L. M. LANGER and E. H. SPEJEWSKI, The beta decay of ^{134}Cs **A109** (1968) 423
HSUE, S. T., M. U. KIM, L. M. LANGER, E. H. SPEJEWSKI and J. B. WILLETT, Decay of ^{47}Ca **A101** (1967) 688
HUANG, C.-Y., *see* HSU **A104** (1967) 677
HÜBEL, H., W. KESTERNICH, P. WEIGT and E. BODENSTEDT, The parity of excited $I = 0$ states in ^{144}Nd and ^{178}Hf **A107** (1968) 106
HÜBEL, H., *see* WEIGT **A106** (1968) 570
HUBER, M. G., *see* CANNINGTON **A109** (1968) 385
HUDSON, F. R., *see* BROWN **A101** (1967) 163
HÜFNER, J., C. MAHAUX and H. A. WEIDENMÜLLER, DWBA in the shell-model approach to nuclear reactions **A105** (1967) 489
HUTCHEON, R. M., T. E. DRAKE, V. W. STOBIE, G. A. BEER and H. S. CAPLAN, Inelastic electron scattering from the 3.56 MeV excited state of ^6Li **A107** (1968) 266
HUTCHINSON, J. M. R., *see* SCHIMA **A102** (1967) 667
HUTTON, J. L., *see* FORSTER **A101** (1967) 113
HUYNH, V. D., *see* MORGENSTERN **A102** (1967) 602
IGO, G. J., *see* FRIEDES **A104** (1967) 294
IMANISHI, N., F. FUKUZAWA, M. SAKISAKA and Y. UEMURA, Coulomb excitation of ^{45}Sc, ^{75}As, ^{127}I and ^{133}Cs **A101** (1967) 654
INGEMARSSON, A., *see* SUNDBERG **A101** (1967) 481
IPPOLITOV, V. T., *see* DRUKAREV **A110** (1968) 218
ISABELLE, D. B., *see* PROCA **A109** (1968) 177
ISHIMATSU, T., K. YAGI, H. OHMURA, Y. NAKAJIMA, T. NAKAGAWA and H. ORIHARA, The (^{3}He, d) reaction on ^{116}Sn, ^{118}Sn and ^{120}Sn **A104** (1967) 481
IVANOVICH, M., P. G. YOUNG and G. G. OHLSEN, Elastic scattering of several hydrogen and helium isotopes from tritium **A110** (1968) 441
IYENGAR, K. V. K., B. LAL and S. K. GUPTA, Gamma rays from the reaction $^{55}Mn(p, n\gamma)^{55}Fe$ **A103** (1967) 592
JACKSON, Jr., A. D., *see* GREENEBAUM **A106** (1968) 193
JACKSON, H. E., *see* MORGENSTERN **A102** (1967) 602
JACKSON, W. R., *see* CHEN **A106** (1968) 1
JACKSON, W. R., *see* SIMPSON **A103** (1967) 97
JACOB, G., *see* HERSCOVITZ **A109** (1968) 478
JACOBS, E., *see* DE FRENNE **A106** (1968) 350
JACOBS, M. J. N., *see* ENGELBERTINK **A107** (1968) 305
JACOBS, R. J., *see* CRETEN **A107** (1968) 347
JAFFE, A. A., *see* FRIEDMAN **A110** (1968) 300
JAFFE, A. A., *see* ZIONI **A109** (1968) 401
JÄGER, H. U., *see* MÜNCHOW **A107** (1968) 671
JÄGARE, S., On statistical reactions in fissioning nuclei. Fission isomers populated in *xnγ* reactions **A103** (1967) 241
JÄGARE, S., On statistical reactions in fissioning nuclei (II). Fission isomers populated in (n, γ) reactions **A109** (1968) 633
JAHN, P., *see* DRAGOUN **A101** (1967) 305
JAHR, R., *see* FITZ **A101** (1967) 449
JAMES, A. N., *see* ANDREWS **A109** (1968) 689
JARVIS, O. N., T. W. P. BROGDEN, B. ROSE, J. P. SCANLON, J. ORCHARD-WEBB and M. R. WIGAN, Measurements of the correlation parameter C_{NN} in proton-proton scattering **A108** (1968) 63

JARVIS, O. N., B. G. HARVEY, D. L. HENDRIE and J. MAHONEY, The inelastic scattering of 17.8 MeV protons from ^{64}Ni, ^{66}Ni and ^{150}Sm and the determination of spin and parity assignments for ^{65}Ni from α-particle scattering **A102** (1967) 625

JASKÓŁA, M., W. OSAKIEWICZ, J. TURKIEWICZ and Z. WILHELMI, Energy spectra of alpha particles from the ^{125}Te(n, α)^{119}Sn, ^{159}Tb(n, a)^{156}Eu and ^{169}Tm(n, α)^{166}Ho reactions with 14.2 MeV neutrons **A110** (1968) 11

JASTAD, E., *see* GRAUE **A103** (1967) 209

JASTRZĘBSKI, J., M. MOSZYŃSKI, Z. PREIBISZ, K. STRYCZNIEWICZ, P. PARIS and J. TREHERNE, Quadrupole moment of the $K^\pi = 0^+$ excited state in odd ^{173}Lu . **A104** (1967) 459

JEREMIE, H., PH. MARTIN and A. CALAMAND, Three-body break-up in the reaction ^{7}Li(d, n)αα **A105** (1967) 689

JEUKENNE, J. P., Time-dependent scattering formalism **A101** (1967) 229

JOHANSSON, A., *see* SUNDBERG **A101** (1967) 481

JOHNSON, C. H., R. L. KERNELL and S. RAMAVATARAM, The ^{89}Y(p, n)^{89}Zr cross section near the first two analogue resonances **A107** (1968) 21

JOHNSON, R. R. and R. J. GRIFFITHS, The ^{40}Ar(p, d)^{39}Ar and ^{36}Ar(p, d)^{35}Ar reactions at 27.5 MeV **A108** (1968) 113

JOHNSON, R. R., *see* JONES **A107** (1968) 659

JOHNSON, R. R., *see* STAUTBERG **A104** (1967) 67

JOHNSTON, A. R., *see* HARBISON **A108** (1968) 478

JOHNSTONE, I. P., Even-parity states of ^{45}Sc **A110** (1968) 429

JONES, A., *see* SUAREZ **A107** (1968) 417

JONES, G. D., *see* BARNARD **A106** (1968) 497

JONES, G. D., *see* BARNARD **A108** (1968) 641

JONES, G. D., *see* BARNARD **A108** (1968) 655

JONES, G. D., *see* FORSTER **A101** (1967) 113

JONES, G. D., R. R. JOHNSON and R. J. GRIFFITHS, A study of the ^{28}Si(p, d)^{27}Si reaction **A107** (1968) 659

JONKER, J. E. and E. DE VRIES, A note on orthogonality and completeness of the rotation matrices **A105** (1967) 621

JONSSON, G. G. and B. FORKMAN, (γ, *xn*) reactions in ^{127}I **A107** (1968) 52

JOSEPH, D., *see* VALKOVIĆ **A106** (1968) 138

JOYCE, J. M., *see* COSMAN **A108** (1968) 519

JULIEN, J., *see* MORGENSTERN **A102** (1967) 602

JUNGERMAN, J., *see* DARONIAN **A104** (1967) 111

KABACHNIK, N. M., V. L. KOROTKIH and H. J. UNGER, Photodisintegration of the ^{16}O nucleus **A103** (1967) 450

KAISER, W., *see* SUAREZ **A107** (1968) 417

KALBITZER, S., *see* BIZZETI **A104** (1967) 577

KANESTRØM, I., Isospin and nuclear level density **A109** (1968) 625

KANKELEIT, E., *see* BOEHM **A109** (1968) 457

KANTELE, J., *see* BONDORF **A101** (1967) 338

KÄSTNER, R., *see* ANDREEFF **A102** (1967) 241

KÄSTNER, R., *see* BONDARENKO **A102** (1967) 577

KÄSTNER, R., *see* HAGEMANN **A109** (1968) 407

KÄSTNER, R., *see* MANFRASS **A102** (1967) 563

KAYE, G., The decay of the $K = 3$ rotational band of ^{173}Yb based on the 1172.3 keV state **A108** (1968) 625

KELLY, W. H., *see* BERZINS **A104** (1967) 241

KELLY, W. H., *see* BERZINS **A104** (1967) 263

KELLY, W. H., *see* BEYER **A104** (1967) 274

KEMP, K., *see* GAARDE **A102** (1967) 1

KENEALY, P. F., E. G. FUNK and J. W. MIHELICH, Coincidence and directional correlation measurements on the decay of ^{154}Tb(5.3 d) **A105** (1967) 522

KENEALY, P. F., E. G. FUNK and J. W. MIHELICH, Coincidence measurements on the decay of ^{169}Tm(87 d) **A110** (1968) 561

KERMODE, M. W., Effective range analysis of low-energy α-α scattering **A104** (1967) 49
KERN, J., O. MIKOSHIBA, R. K. SHELINE, T. UDAGAWA and S. YOSHIDA, Gamma-vibrational states of deformed even nuclei populated in the (d, p) reaction . . **A104** (1967) 642
KERNELL, L., *see* JOHNSON **A107** (1968) 21
KERNS, J. R., *see* BROWN **A107** (1968) 529
KERNS, J. R., *see* ROLLEFSON **A107** (1968) 545
KERR, G. W., J. M. MORRIS and J. R. RISSER, Energy levels of ^{17}O from $^{13}C(\alpha,\alpha_0)^{13}C$ and $^{13}C(\alpha,n)^{16}O$ **A110** (1968) 637
KESTERNICH, W., *see* HÜBEL **A107** (1968) 106
KHADKIKAR, S. B., and M. R. GUNYE, Projected Hartree-Fock spectra in 1f-2p shell nuclei **A110** (1968) 472
KHARCHENKO, V. F., N. M. PETROV and S. A. STOROZHENKO, Binding energy of triton and n-d scattering lengths with separable potentials **A106** (1968) 464
KHVASTUNOV, V. M., *see* SHEVCHENKO **A101** (1967) 187
KHURGIN, B., S. OFER and M. RAKAVY, Mössbauer effect studies of the 74.5 keV level of ^{161}Dy **A110** (1968) 577
KIANG, D. and S. H. NG, On the electromagnetic radii and Coulomb energy of ^3He **A104** (1967) 538
KILLIG, K., *see* LIEDER **A106** (1968) 389
KIM, M. U., *see* HSUE **A101** (1967) 688
KIM, M. U., *see* HSUE **A109** (1968) 423
KING, J. D., *see* TAYLOR **A106** (1968) 49
KINGSTON, F. G., *see* HARBISON **A108** (1968) 478
KIRKBY, P., *see* ANDREWS **A109** (1968) 689
KLEPPER, O., *see* LIEB **A108** (1968) 233
KOCH, J., F. MÜNNICH und U. SCHÖTZIG, Messung des E2/M1 Mischungsverhältnisses von 2^+-2^+ Übergängen in ^{82}Kr, ^{106}Pd, ^{122}Te, ^{192}Pt und ^{198}Hg. . . . **A103** (1967) 300
KODRE, A., *see* PAHOR **A109** (1968) 62
KOERTS, L. A., CH., *see* TJIN A DJIE **A106** (1968) 85
KÖHLER, H. S. and R. J. MCCARTHY, Calculation of ^{16}O binding energy (II) . . . **A106** (1968) 313
KONDAIAH, E., *see* TIWARI **A110** (1968) 317
KONIJN, J., *see* GOUDSMIT **A104** (1967) 497
KONIJN, J., W. H. G. LEWIN, B. VAN NOOIJEN, H. F. VAN BEEK, S. A. DE WIT and E. W. A. LINGEMAN, Allowed K-capture to positon emission ratios in the decays of ^{48}V and ^{52}Mn **A102** (1967) 129
KORMICKI, J., H. NIEWODNICZAŃSKI, Z. STACHURA, K. ZUBER and A. BUDZIAK, Excited states of ^{155}Gd nucleus **A102** (1967) 253
KOROTKIH, V. L., *see* KABACHNIK **A103** (1967) 450
KOROTKIN, YU. S., *see* FLEROV **A106** (1968) 476
KOSSANYI, P., *see* NATHAN **A109** (1968) 481
KOSSANYI-DEMAY, P. and R. DE SWINIARSKI, New parameters for scattering of 18.6 MeV polarized protons **A108** (1967) 577
KOSTROUN, V. O., *see* CRASEMANN **A103** (1967) 145
KOVALYOV, V. D., *see* SHEVCHENKO **A101** (1967) 187
KOWNACKI, J., J. LUDZIEJEWSKI and M. MOSZYŃSKI, Properties of the low-energy excited states in ^{125}I and ^{127}I **A107** (1968) 476
KRAAZ, P., *see* FUCHS **A105** (1967) 590
KRAAZ, P., *see* FUCHS **A110** (1968) 65
KRAMER, N., *see* BONDARENKO **A102** (1967) 577
KRAMER, N., *see* MANFRASS **A102** (1967) 563
KRAMER, P. and M. MOSHINSKY, Group theory of harmonic oscillators (IV). Dynamics of the two-, three- and four-particle systems **A107** (1968) 481
KRAPPE, H. J. and H. G. WAHSWEILER, Stability of nuclei against pear-shaped deformations **A104** (1967) 633
KRAUS, L., M. SUFFERT et D. MAGNAC-VALETTE, Etude de la réaction $^2H(^3He,\gamma)^5Li$ à $E_{^3He} \leqq 5.5$ MeV **A109** (1968) 593
KRAUSHAAR, J. J., *see* STAUTBERG **A104** (1967) 67

KREISCHE, W., W. LAMPERT und G. LOOS, Untersuchung der Inneren Bremsstrahlung von ^{32}P und ^{90}Y. (Winkelkorrelation und Spektrum) **A107** (1968) 601
KRESNIN, A. A., *see* EL-BATANONI **A102** (1967) 473
KRESNIN, A. A., *see* SHAKER **A101** (1967) 333
KRISCIOKAITIS, R. J. and S. K. HAYNES, A study of the L- and K-Auger spectra of $^{113}_{49}$In from $^{113}_{50}$Sn **A104** (1967) 466
KRIVINE, H., *see* FAIVRE **A108** (1968) 508
KRMPOTIĆ, F., *see* EMAN **A104** (1967) 386
KROEPFL, J. J. and C. P. BROWNE, Energy level structure of ^{9}Be and ^{9}B **A108** (1968) 289
KRUG, H., *see* DARONIAN **A104** (1967) 111
KUKULIN, V. I., Yu. F. SMIRNOV and L. MAJLING, Wave functions for mixed configurations and the Racah algebra of SU(4) **A103** (1967) 681
KULIEV, A. A. and N. I. PYATOV, Effect of the spin-quadrupole force on the rate of β-decay to collective states of even deformed nuclei **A106** (1968) 689
KUMAR, K. and M. BARANGER, Nuclear deformations in the pairing-plus-quadrupole model (III). Static nuclear shapes in the rare-earth region **A110** (1968) 529
KUMAR, K., *see* BARANGER **A110** (1968) 490
KUO, T. T. S., State dependence of shell-model reaction matrix elements **A103** (1967) 71
KUPERUS, J., *see* BELOTE **A102** (1967) 462
KURATH, D., *see* COHEN **A101** (1967) 1
KURCEWICZ, W., Z. MOROZ, Z. PREIBISZ and B. SCHMIDT NIELSEN, The decay scheme of ^{165}Tm **A108** (1965) 434
KURKI-SUONIO, K., *see* LIPAS **A110** (1968) 211
KUZE, S., *see* OTOZAI **A107** (1968) 427
KUŹMIŃSKI, J., *see* BUDZANOWSKI **A106** (1968) 21
LAL, B., *see* IYENGAR **A103** (1967) 592
LAMARCHE, L., *see* ST.-PIERRE **A102** (1967) 433
LAMB, R. C., *see* BARROWS **A107** (1968) 153
LAMBA, C. M., N. SARMA, N. S. THAMPI, D. K. SOOD and V. K. DESHPANDE, Statistical analysis of the reaction ^{51}V(p, p)^{51}V **A110** (1968) 111
LAMPERT, W., *see* KREISCHE **A107** (1968) 601
LANGER, L. M., *see* HSUE **A101** (1967) 688
LANGER, L. M., *see* HSUE **A109** (1968) 423
LANGEVIN, M., *see* VERNOTTE **A102** (1967) 449
LARNER, D. and S. A. WILLIAMS, Particle-hole states in ^{46}Ca according to the SU_3 scheme **A107** (1968) 354
LARSON, R. E., *see* RITTER **A110** (1968) 463
LAURAT, M., *see* CABÉ **A102** (1967) 92
LAVERRIÈRE, H. and J. PRORIOL, Euler angles for three and four identical particle systems (III). Helicity formalism **A109** (1968) 433
LAWERGREN, B., G. C. MORRISON and A. T. G. FERGUSON, Excitation of isobaric analogue states in the ^{27}Al(d, n)^{28}Si reaction **A106** (1968) 455
LAWERGREN, B. T., A. T. G. FERGUSON and G. C. MORRISON, States with $T = 1$ in ^{20}Ne, ^{24}Mg and ^{28}Si **A108** (1968) 325
LAWRENCE, F. O., *see* DANIELS **A107** (1968) 569
LAWSON, P. A. and S. SAMPANTHAR, Four-body correlations in nuclear matter . **A106** (1968) 669
LAWSON, R. D., *see* ARIMA **A108** (1968) 94
LEACHMAN, R. B., *see* ERKKILA **A108** (1968) 689
LEE, J. K. P., S. K. MARK, P. M. PORTNER and R. B. MOORE, (p, d) reactions on light nuclei at 100 MeV **A106** (1968) 357
LEE, T. J., *see* WANG **A102** (1967) 537
LEGGE, G. J. F., *see* SHAFROTH **A107** (1968) 181
LEGRAND, J., J. P. BOULANGER et J. P. BRETHON, Détermination de l'énergie de quelques transitions γ **A107** (1968) 177
LEHMANN, C., *see* BASS **A102** (1967) 190

LEIGHTON, H. G., G. ROY, D. P. GURD and T. B. GRANDY, A study of the ^{46}Ca (d, d)^{46}Ca, ^{46}Ca(d, p)^{47}Ca and ^{46}Ca(d, n)^{47}Sc reactions in the energy region from 5.0 to 6.5 MeV A109 (1968) 218
LEUTZ, H., *see* WENNINGER A109 (1968) 561
LEWIN, W. H. G., *see* KONIJN A102 (1967) 129
LEWIS, C. W., J. N. MO, C. F. MONAHAN, M. F. THOMAS and P. J. TWIN, Angular correlations studies in ^{48}Ti A107 (1968) 273
LEWIS, E. R., *see* EAST A107 (1968) 382
LEWIS, V. E., E. J. BURGE, A. A. RUSH, D. A. SMITH and N. K. GANGULY, Polarization and asymmetry in the elastic and inelastic scattering of 50 MeV protons by ^{24}Mg, ^{64}Zn and ^{68}Zn A101 (1967) 589
LEWIS, V. E., *see* CALDERBANK A105 (1967) 601
LEWIS, V. E., *see* RUSH A104 (1967) 340
LEY-KOO, E., M. DE LLANO and J. QUINTANILLA, Modelistic and realistic interactions in the p, sd and pf nuclear shells A107 (1968) 35
LIBERT, J., Energie de la transition isomérique dans ^{109}Ag A102 (1967) 477
LIEB, K. P., H. RÖPKE, H. GRAWE, H. J. BRUNDIERS and O. KLEPPER, Lifetime measurements in ^{35}Ar A108 (1968) 233
LIEB, K. P., *see* RÖPKE A104 (1967) 529
LIEDER, R. M., M. FLECK, K. KILLIG, M. FORKER, K.-H. SPEIDEL and E. BODENSTEDT, The *g*-factor of the 184 keV states of ^{67}Zn A106 (1968) 389
LIEN, J. R., *see* GRAUE A103 (1967) 209
LIEN, J. R., *see* MOORE A104 (1967) 327
LIM, T. K., The S′ state in the trinucleon A109 (1968) 641
LIM, T. K., Short-range correlations and the tri-nucleon A110 (1968) 417
LIN, D. L., *see* WONG A101 (1967) 663
LIN, E. K., *see* WANG A102 (1967) 537
LINDEMAN, H., *see* ENGELBERTINK A107 (1968) 305
LING, S. C., A. M. YOUNG and S. L. BLATT, Radiative capture of ^{3}He by ^{7}Li from 3 to 6 MeV A108 (1968) 221
LINGEMAN, E. W. A., *see* KONIJN A102 (1967) 129
LIPAS, P. O., K. KURKI-SUONIO and E. PELTOLA, $K = 1, 2, 3$ octupole vibrations A110 (1968) 211
LIPPERHEIDE, R., On the theory of isobaric analogue resonances A105 (1967) 545
LISLE, J. C., *see* COTTRELL A109 (1968) 288
LOINGER, A., Comments on a recent paper concerning the quantum theory of measurement A108 (1968) 245
LOISEAUX, J. M., *see* NATHAN A109 (1968) 481
LOMBARD, R. M. and G. R. BISHOP, The scattering of high-energy electrons by ^{27}Al A101 (1967) 601
LOMBARD, R. M. and G. R. BISHOP, Scattering of high-energy electrons on ^{27}Al, ^{31}P, ^{32}S and the core-excitation model A101 (1967) 625
LOMBARD, R. J., C. F. PERDRISAT and J. H. BRUNNER, Internal pair formation and multipolarity of nuclear transitions A110 (1968) 41
LONGEQUEUE, J. P., J. F. CAVAIGNAC, A. GIORNI et R. BOUCHEZ, Études des niveaux du ^{9}Be obtenus par réaction ^{10}B(d, $\alpha\alpha$)α de 0.6 à 2 MeV A107 (1968) 467
LOOS, G., *see* KREISCHE A107 (1968) 601
LOPATA, C., *see* MORGENSTERN A102 (1967) 602
LOPES, J. S., *see* GILL A106 (1968) 678
LOPES, J. S., B. C. ROBERTSON, R. D. GILL, R. A. I. BELL and H. J. ROSE, Electromagnetic properties of ^{39}K bound states A109 (1968) 241
LOVE, W. G. and G. R. SATCHLER, Core polarization and the microscopic model of inelastic scattering A101 (1967) 424
LOWE, B. G., *see* ANDREWS A109 (1968) 689
LUCCIO, A. U., *see* MCKEE A108 (1968) 177
LÜDECKE, H., TAN WAN-TJIN, H. WERNER and J. ZIMMERER, The reactions ^{4}Li (^{3}He, ^{3}He$_0$)^{4}Li, ^{6}Li(d, d$_0$)^{6}Li, ^{7}Li(d, d$_0$)^{7}Li and ^{6}Li(^{3}He, d$_{0,1}$)^{7}Be A109 (1968) 676
LUDZIEJEWSKI, J., *see* KOWNACKI A107 (1968) 476

LUNDÁN, A. and A. SIIVOLA, A short-lived isomer ^{194m}Ir **A106** (1968) 417
LÜTKEN, H., *see* BONDORF **A101** (1967) 338
LUTZ, H. F., J. J. WESOLOWSKI, S. F. ECCLES and L. F. HANSEN, Study of the ^{16}O(p, t)^{14}O and ^{16}O(p, d)^{17}O reactions at E_p = 18.2 MeV **A101** (1967) 241
MACDONALD, J. R., D. F. H. START, R. ANDERSON, A. G. ROBERTSON and M. A. GRACE, Lifetimes in ^{46}Ca from Doppler shift attenuation measurements using a Ge(Li) detector **A108** (1968) 6
MACFARLANE, M. H., *see* ARIMA **A108** (1968) 94
MACGREGOR, A. E., *see* BROWN **A101** (1967) 163
MACKENZIE, D. R. and R. D. CONNOR, The decay of ^{239}U **A108** (1968) 81
MAGNAC-VALETTE, D., *see* KRAUS **A109** (1968) 593
MAHAUX, C., *see* HÜFNER **A105** (1967) 489
MAHESHWARI, P. N., *see* ST.-PIERRE **A102** (1967) 433
MAHLEIN, H. F., *see* SUAREZ **A107** (1968) 417
MAHONEY, J., *see* JARVIS **A102** (1967) 625
MAHUNKA, I., *see* DEMIN **A106** (1968) 337
MAIER, B. P., *see* CARLOS **A107** (1968) 436
MAIRLE, G., *see* HINTERBERGER **A106** (1968) 161
MAJLING, L., *see* KUKULIN **A103** (1967) 681
MALMSKOG, S. G., *see* BÄCKLIN **A103** (1967) 337
MALMSKOG, S. G., A. MARELIUS and S. WAHLBORN, The $|\Delta K| = 1$, E1 transitions in odd-mass isotopes of Tb and Eu **A103** (1967) 481
MALMSKOG, S. G. and S. WAHLBORN, RPC calculations for *K*-forbidden transitions in ^{183}W. Evidence for large inertial parameter connected with high-lying rotational bands **A102** (1967) 273
MANDEVILLE, C. E., *see* AGIN **A105** (1967) 698
MANDEVILLE, C. E., *see* MEGLI **A107** (1968) 117
MANDEVILLE, C. E., *see* MEGLI **A107** (1968) 217
MANFRASS, P., *see* ANDREEFF **A102** (1967) 241
MANFRASS, P., A. ANDREEFF, R. KÄSTNER, W. BONDARENKO, N. KRAMER und P. PROKOFJEW, Untersuchung von ^{179}Hf in der (n, γ) Reaktion **A102** (1967) 563
MANFRASS, P., *see* BONDARENKO **A102** (1967) 577
MANFRASS, P., *see* HAGEMANN **A109** (1968) 407
MANI, G. S. and A. D. B. DIX, Energy levels in ^{6}Li and ^{7}Li from inelastic proton scattering **A106** (1968) 251
MANI, G. S. and A. TARRATTS, Elastic scattering of deuterons by alpha particles. **A107** (1968) 624
MARCINKOWSKI, A., *see* DECOWSKI **A110** (1968) 129
MARELIUS, A., *see* MALMSKOG **A103** (1967) 481
MARINOV, A., *see* FRIEDMAN **A110** (1968) 300
MARIS, Th. A. J., *see* HERSCOVITZ **A109** (1968) 478
MARK, S. K., *see* LEE **A106** (1968) 357
MARONI, C., *see* FUSCHINI **A109** (1968) 465
MARSH, R. H., *see* PIERSON **A104** (1967) 511
MARTIN, PH., *see* JEREMIE **A105** (1967) 689
MARUMORI, T. and K. SUZUKI, Four-body correlations in light nuclei (I). First excited 0^+ states in ^{16}O and ^{40}Ca **A106** (1968) 610
MASSA, I., *see* FUSCHINI **A109** (1968) 465
MATUSZEK, J., *see* CARLOS **A107** (1968) 436
MAVROMATIS, H. A. and L. ZAMICK, Magnetic moments of nuclei with closed *j-j* shells plus or minus one nucleon **A104** (1967) 17
MAXSON, D. R. and R. D. MURPHY, ^{16}O(n, α)^{13}C reaction at 14.1 MeV **A110** (1968) 555
MAXSON, D. R., R. D. MURPHY and M. R. ZATZICK, ^{14}N(n, α)^{11}B reaction at 14.1 MeV **A110** (1968) 609
MAY, T. H., *see* BEHOF **A108** (1968) 250
MAYER, B., *see* ARVIEUX **A102** (1967) 503
MAYER, B., *see* DARONIAN **A104** (1967) 111

McCarthy, A. L., *see* Conlon **A104** (1967) 213
McCarthy, J. S., *see* Frosch **A110** (1968) 657
McCarthy, R. J., *see* Bhakar **A104** (1967) 283
McCarthy, R. J., *see* Köhler **A106** (1968) 313
McClatchie, E. A., *see* Harbison **A108** (1968) 478
McDonald, J. and D. Porter, Excited states in ^{113}Cd **A109** (1968) 529
McDonald, J., D. Porter and D. T. Stewart, Excited states in ^{115}In **A104** (1967) 177
McEllistrem, M. T., *see* Barrows **A107** (1968) 153
McEwen, J. G., *see* Auld **A101** (1967) 65
McGarry, W. I., *see* Behof **A108** (1968) 250
McGowan, F. K., *see* Robinson **A104** (1967) 401
McKee, J. S. C., A. U. Luccio, R. J. Slobodrian and W. F. Tivol, Small-angle behaviour of the polarization in p-d elastic scattering **A108** (1968) 177
McKee, J. S. C., *see* Slobodrian **A101** (1967) 109
McMillan, M. and M. Best, On the symmetric S- and D-state components of the triton wave function **A105** (1967) 649
McMurray, W. R., *see* Van der Merwe **A103** (1967) 474
Meboniya, D. V., *see* Balashov **A107** (1968) 369
Megli, D. G., G. P. Agin, V. R. Potnis and C. E. Mandeville, Nuclear energy states of ^{171}Tm **A107** (1968) 217
Megli, D. G., V. R. Potnis and C. E. Mandeville, Nuclear states of ^{149}Pr **A107** (1968) 117
Mehnert, R., *see* Otto **A109** (1968) 118
Mehta, M. L., *see* Rosenzweig **A109** (1968) 437
Mehta, M. L. and N. Rosenzweig, Distribution laws for the roots of a random antisymmetric hermitian matrix **A109** (1968) 449
Meier-Ewert, K., K. Bethge and K.-O. Pfeiffer, ^{6}Li induced reactions on ^{12}C at $E_{lab} = 20$ MeV **A110** (1968) 142
Meiling, W., *see* Hagemann **A109** (1968) 407
Melkanoff, M. A., *see* Raynal **A101** (1967) 369
Meulenberg, Jr., A., *see* Van Nooijen **A106** (1968) 129
Meyer, M. A., *see* Wolff **A107** (1968) 332
Meyer, R. A., *see* Adam **A106** (1968) 275
Meyer, V., R. E. Pixley and P. Truöl, Excited states in ^{10}B from the reaction ^{6}Li(α, α)^{6}Li **A101** (1967) 321
Meyerhof, W. E. and T. A. Tombrello, Energy levels of light nuclei, $A = 4$ . . **A109** (1968) 1
Meyer-Schützmeister, L., Z. Vager, R. E. Segel and P. P. Singh, The giant dipole resonance excited by α-capture **A108** (1968) 180
Middleton, R., *see* Bierregaard **A103** (1967) 33
Mihelich, J. W., *see* Kenealy **A105** (1967) 522
Mihelich, J. W., *see* Kenealy **A110** (1968) 561
Mikhailov, I. N., *see* Nadjakov **A107** (1968) 92
Mikheev, V. L., *see* Flerov **A106** (1968) 476
Mikoshiba, O., *see* Kern **A104** (1967) 642
Mikoshiba, O., R. K. Sheline, T. Udagawa and S. Yoshida, $K = 0^{+}$ excited levels in deformed nuclei and their rotational coupling **A101** (1967) 202
Miljanić, Đ., G. Paić, B. Antolković and P. Tomaš, (n, d) reactions on ^{14}N, ^{35}Cl, ^{39}K, ^{40}Ca and ^{75}As at 14.4 MeV **A106** (1968) 401
Miller, M. B., *see* Flerov **A106** (1968) 476
Milner, W. T., *see* Robinson **A104** (1967) 401
Mishra, N., C. F. Moore and C. E. Watson, Experimental study of the structure of ^{90}Y **A110** (1968) 353
Mito, A., *see* Otozai **A107** (1968) 427
Miura, K., *see* Takeuchi **A109** (1968) 105
Mladjenović, M., *see* Bogdanović **A106** (1968) 209
Mo, J. N., *see* Lewis **A107** (1968) 273
Moak, C. D., *see* Ford, Jr. **A103** (1967) 525

MOCOROA, A., *see* VIGNAU **A110** (1968) 56
MOLINARI, A., *see* BROGLIA **A109** (1968) 353
MOLINARI, A., *see* BLOMQVIST **A106** (1968) 545
MOLJK, A., *see* PAHOR **A109** (1968) 62
MONAHAN, C. F., *see* LEWIS **A107** (1968) 273
MONAHAN, J. E., *see* ROSENZWEIG **A109** (1968) 437
MONTAGUE, J. H., *see* EARWAKER **A109** (1968) 507
MOORE, C. F., *see* MISHRA **A110** (1968) 353
MOORE, R. B., *see* LEE **A106** (1968) 357
MOORE, W. H., *see* GRAUE **A103** (1967) 209
MOORE, W. H., G. K. SCHLEGEL, S. O'DELL, A. GRAUE and J. R. LIEN, The ^{130}Te (d, p)^{129}Te reaction at 7.5 MeV bombarding energy **A104** (1967) 327
MORAGUES, J. A., P. REYES-SUTER, T. SUTER and M. PÉREZ, Gamma spectrum of ^{106m}Ag **A106** (1968) 289
MOREH, R., J. BALDERMAN and Y. GOZEZ, Decay of ^{23}Ne **A107** (1968) 236
MOREH, R., *see* SHLOMO **A110** (1968) 204
MORGENSTERN, H., *see* BOHNE **A106** (1968) 442
MORGENSTERN, J., S. DE BARROS, A. BLOCH, P. L. CHEVILLON, V. D. HUYNH, H. E. JACKSON, J. JULIEN, C. LOPATA et C. SAMOUR, Analyse des paramètres de résonances du cobalt et du manganèse, induites par des neutrons d'énergie inférieure à 120 keV **A102** (1967) 602
MORITA, S., *see* TAKEUCHI **A109** (1968) 105
MOROZ, Z., *see* KURCEWICZ **A108** (1968) 434
MORRIS, J. M., *see* KERR **A110** (1968) 637
MORRISON, G. C., *see* LAWERGREN **A106** (1968) 455
MORRISON, G. C., *see* LAWERGREN **A108** (1968) 325
MORRISON, G. C., *see* WEIDINGER **A108** (1968) 547
MORTON, B. J., *see* GROSS **A102** (1967) 673
MOSHINSKY, M., *see* KRAMER **A107** (1968) 481
MÖSNER, J., G. SCHMIDT and J. SCHINTLMEISTER, Four-particle disintegration of nitrogen by fast neutrons **A103** (1967) 238
MOSZYŃSKI, M., *see* JASTRZĘBSKI **A104** (1967) 459
MOSZYŃSKI, M., *see* KOWNACKI **A107** (1968) 476
MOURAD, W. G., *see* DONHOWE **A102** (1967) 383
MOURAD, W. G., K. E. NIELSEN and M. PETRILAK, Jr., Precise measurement of relative energy positions and widths of some (p, γ) resonances in aluminium and sodium **A102** (1967) 406
MOUTON, W. L., *see* HOUGH **A109** (1968) 393
MOXON, M. C., *see* ASGHAR **A108** (1968) 535
MULDER, K., *see* TJIN A DJIE **A106** (1968) 85
MÜLLER, H. H., *see* BENN **A106** (1968) 296
MÜLLER, Kh., Generalized optical model for elastic and quasi-elastic scattering of protons **A103** (1967) 513
MÜNCHOW, L. and H. U. JÄGER, Even-parity states of ^{16}O in a pairing-plus-quadrupole model **A107** (1968) 671
MÜNNICH, F., *see* KOCH **A103** (1967) 300
MURPHY, Jr., H. M., *see* EAST **A107** (1968) 382
MURPHY, R. D., *see* MAXSON **A110** (1968) 555
MURPHY, R. D., *see* MAXSON **A110** (1968) 609
NACHAMKIN, J., *see* GOLDHAMMER **A106** (1968) 62
NADJAKOV, E. and I. N. MIKHAILOV, Description of the nuclear rotational bands by the collective variable method **A107** (1968) 92
NAGATANI, K., *see* NAKAMURA **A101** (1967) 557
NAHM, C. W. and T. T. THWAITES, Radiative alpha capture by ^{32}Ar and ^{36}Ar . . **A103** (1967) 503
NAIR, S. C. K., *see* BLIN-STOYLE **A105** (1967) 640
NAKAGAWA, T., *see* ISHIMATSU **A104** (1967) 481

NAKAJIMA, Y., *see* ISHIMATSU **A104** (1967) 481
NAKAMURA, H. and K. NAGATANI, An analysis of deuteron break-up process induced by alpha particles **A101** (1967) 557
NAQVI, J. H., Separable non-local two-nucleon potential for odd-parity spin triplet states **A103** (1967) 565
NATH, N., *see* SHARMA **A106** (1968) 241
NATHAN, O., *see* BJERREGAARD **A103** (1967) 33
NATHAN, O., *see* BJERREGAARD **A107** (1968) 241
NATHAN, O., *see* BJERREGAARD **A110** (1968) 1
NATHAN, O., G. BRUGE, A. BUSSIÈRE, P. KOSSANYI, J. M. LOISEAUX, P. ROUSSEL, J. TESTONI and L. VALENTIN, The reactions ^{203,205}Tl(α, t)^{204,206}Pb **A109** (1968) 481
NAUMANN, R. A., *see* ABDUL-MALEK **A106** (1968) 225
NAUMANN, R. A., *see* ABDUL-MALEK **A108** (1968) 401
NAUMANN, R. A., *see* CONLON **A104** (1967) 213
NAUMANN, R. A., *see* GREENEBAUM **A106** (1968) 193
NEFF, N., *see* TAYLOR **A106** (1968) 49
NEWMAN, E., and J. C. HIEBERT, The (d, ^{3}He) reaction on the $N = 28$ nuclei at 34 MeV **A110** (1968) 366
NEWTON, J. O., Energy levels in ^{183}Re from the ^{181}Ta(^{4}He, 2nγ)^{183}Re reaction . . **A108** (1968) 353
NEWTON, J. O., *see* COTTRELL **A109** (1968) 288
NG, S. H. *see* KIANG **A104** (1967) 538
NICKEL, B. G., E. L. TOMUSIAK and R. E. PEIERLS, Binding-energy calculations for finite nuclei **A102** (1967) 655
NIELSEN A., *see* EMAN **A104** (1967) 386
NIELSEN, K. E., *see* MOURAD **A102** (1967) 406
NIEWODNICZAŃSKI, H., *see* BUDZANOWSKI **A106** (1968) 21
NIEWODNICZAŃSKI, H., *see* KORMICKI **A102** (1967) 253
NIFENECKER, H., *see* CARLOS **A107** (1698) 436
NILSSON, S. G., *see* PRIOR **A110** (1968) 257
NISHI, T., *see* OTOZAI **A107** (1968) 427
NOACK, C. C., On irreducible tensors of O_h^+ **A108** (1968) 493
NORDHAGEN R., B. ELBEK and B. HERSKIND, Collective states in ^{58}Co **A104** (1967) 353
NOTARRIGO, S., *see* CUZZOCREA **A103** (1967) 616
NOTEA, A. and Y. GURFINKEL, Transitions in ^{135}Cs from the decay of ^{135}Ba. **A107** (1968) 193
NURZYŃSKI, J., K. H. BRAY and B. A. ROBSON, The ^{27}Al(^{3}He, α)^{26}Al reaction at 10 MeV bombarding energy **A107** (1968) 581
NYBØ, K., *see* GROTDAL **A110** (1968) 385
O'BRIEN, B. J., W. E. DORENBUSCH, T. A. BELOTE and J. RAPAPORT, Level structure of ^{51}V, ^{53}Mn and ^{55}Co by (^{3}He, d) reactions **A104** (1967) 609
OBST, E., F. RAUCH and H. G. WAHSWEILER, Two-particle-two-hole configurations in the dipole resonances of ^{90}Zr **A103** (1967) 17
O'DELL, S., *see* MOORE **A104** (1967) 327
OFER, S., *see* KHURGIN **A110** (1968) 577
OGAZA, S., *see* BOCHNACKI **A102** (1967) 529
OHLSEN, G. G., *see* IVANOVICH **A110** (1968) 441
OHMURA, H., *see* ISHIMATSU **A104** (1967) 481
OKAMURA, H., *see* OTOZAI **A107** (1968) 427
OLESEN, M. C., *see* VEJE **A109** (1968) 489
OLIVA, P., *see* GIANNINI **A101** (1967) 145
OMELAYENKO, A. S., *see* SHEVCHENKO **A101** (1967) 187
OP DEN KAMP, A. M. F., *see* SPILLING **A102** (1967) 209
ORCHARD-WEBB, J., *see* JARVIS **A108** (1968) 63
ORIHARA, H., *see* ISHIMATSU **A104** (1967) 481
ORTH, C. J., *see* DANIELS **A107** (1968) 569
OSAKIEWICZ, W., *see* JASKÓŁA **A110** (1968) 11
OTHAZ, R., *see* VIGNAU **A110** (1968) 56

OTOZAI, K., S. KUZE, H. OKAMURA, A. MITO, T. NISHI and I. FUJIWARA, Excitation functions for the deuteron-induced reactions **A107** (1968) 427

OTTO, G., R. MEHNERT and G. TOMASELLI, Isobar-Analog-Resonanzen in den Reaktionen ^{55}Mn(p, γ)^{56}Fe und ^{55}Mn(p, n)^{55}Fe **A109** (1968) 118

PAGES, A., *see* DARONIAN **A104** (1967) 111

PAHOR, J., A. KODRE and A. MOLJK, The K-shell fluorescence yield of phosphorus **A109** (1968) 62

PAIĆ, G., *see* MILJANIĆ **A106** (1968) 401

PALATHINGAL, J. C. and M. L. WIEDENBECK, Nuclear resonance fluorescence and Rayleigh scattering from ^{203}Tl **A101** (1967) 193

PALEVSKY, H., *see* FRIEDES **A104** (1967) 294

PANDHARIPANDE, V. R., K. G. PRASAD and R. P. SHARMA, Magnetic moment of the 660 keV state in ^{117}In **A104** (1967) 525

PANDHARIPANDE, V. R., K. G. PRASAD, R. P. SHARMA and B. V. THOSAR, Level structure of ^{117}In from the decay of ^{117}Cd **A109** (1968) 81

PAPIAU, A. M., *see* FAIVRE **A108** (1968) 508

PAPINEAU, A., *see* ARVIEUX **A102** (1967) 503

PAPINEAU, A., *see* DARONIAN **A104** (1967) 111

PARIKH, J. C. and K. H. BHATT, A symmetry in the effective interaction of Kuo and Brown **A103** (1967) 496

PARIS, P., *see* JASTRZĘBSKI **A104** (1967) 459

PARSA, B., G. E. GORDON and W. B. WALTERS, Decay of the 55 min and 12 min ^{133}Te isomers **A101** (1968) 674

PARSIGNAULT, D. R., *see* GÜNTHER **A104** (1967) 588

PASSATORE, G., On the energy dependence of the empirical optical potential . . . **A110** (1968) 91

PAUL, E. B., *see* BLAKE **A102** (1967) 305

PAUL, E. B., *see* BLAKE **A107** (1968) 253

PAULI, H.-C., The atomic screening in internal L-conversion calculations **A109** (1968) 94

PECK, Jr., R. A., *see* WAGNER **A110** (1968) 81

PEIERLS, R. E., *see* NICKEL **A102** (1967) 655

PELTOLA, E., *see* LIPAS **A110** (1968) 211

PERDRISAT, C. F., *see* LOMBARD **A110** (1968) 41

PÉREZ, M., *see* MORAGUES **A106** (1968) 289

PERILLO, E., *see* CUZZOCREA **A103** (1967) 616

PERLOW, G. J., *see* CAMPBELL **A109** (1968) 59

PERRENOUD, J.-L. et E. SHELDON, La réaction de transfert avec des ions lourds . **A102** (1967) 105

PERRIN, G., *see* CARLOS **A107** (1968) 436

PETERSEN, E. L., I. ŠLAUS, J. W. VERBA, R. F. CARLSON and J. R. RICHARDSON, Inelastic scattering of 46 MeV protons from ^{12}C **A102** (1967) 145

PETRILAK, Jr., M., *see* MOURAD **A102** (1967) 406

PETROV, N. M., *see* KHARCHENKO **A106** (1968) 464

PETTERSSON, H., *see* ANTMAN **A110** (1968) 289

PETTERSSON, H., S. ANTMAN and Y. GRUNDITZ, The decay of ^{99}Nb **A108** (1968) 124

PFEIFFER, K.-O., *see* MEIER-EWERT **A110** (1968) 142

PERAZZO, R. P. J., *see* EVANS **A103** (1967) 225

PHILLIPS, A. C., Consistency of the low-energy three-nucleon observables and the separable interaction model **A107** (1968) 209

PHILLIPS, G. C., *see* CHEN **A106** (1968) 1

PHILLIPS, G. C., *see* SIMPSON **A103** (1967) 97

PHILLIPS, G. C., *see* VALKOVIC **A106** (1968) 138

PHILLIPS, W. R., *see* DRYSDALE **A102** (1967) 337

PIEPER, W. and W. GREINER, Nuclear dynamics and the X-ray spectrum of muonic atoms **A109** (1968) 539

PIERCE, T. E. and M. BLANN, Lifetime predictions for super-heavy elements . . . **A106** (1968) 14

PIERSON, W. R. and R. H. MARSH, Note on the energy of the isomeric transition in ^{109}Ag **A104** (1967) 511

PINAJIAN, J. J., *see* VAN NOOIJEN **A106** (1968) 129

PIXLEY, R. E., *see* BENN **A106** (1968) 296
PIXLEY, R. E., *see* MEYER **A101** (1967) 321
PLEVE, A. A., *see* FLEROV **A102** (1967) 443
POLICARPO, A. J. P. L., *see* DRYSDALE **A102** (1967) 337
POLIKANOV, S. M., *see* FLEROV **A102** (1967) 443
POLIKANOV, S. M., *see* FLEROV **A106** (1968) 476
PORTER, D., *see* MCDONALD **A104** (1967) 177
PORTER, D., *see* MCDONALD **A109** (1968) 529
PORTNER, P. M., *see* LEE **A106** (1968) 357
POTNIS, V. R., *see* AGIN **A105** (1967) 698
POTNIS, V. R., *see* MEGLI **A107** (1968) 117
POTNIS, V. R., *see* MEGLI **A107** (1968) 217
POVH, B., *see* BIZZETI **A104** (1967) 577
PRASAD, K. G., *see* PANDHARIPANDE **A104** (1967) 525
PRASAD, K. G., *see* PANDHARIPANDE **A109** (1968) 81
PREIBISZ, Z., *see* JASTRZEBSKI **A104** (1967) 459
PREIBISZ, Z., *see* KURCEWICZ **A108** (1968) 434
PRIOR, O., F. BOEHM and S. G. NILSSON, Collective gyromagnetic ratios of deformed nuclei **A110** (1968) 257
PROCA, G. A. and D. B. ISABELLE, Inelastic electron scattering at 180° on ^{12}C . . **A109** (1968) 177
PROETEL, D., *see* CLAUSNITZER **A106** (1968) 99
PROKOFJEW, P., *see* MANFRASS **A102** (1967) 563
PROKOFJEW, P., *see* BONDARENKO **A102** (1967) 577
PRORIOL, J., *see* LAVERRIÈRE **A109** (1968) 433
PROSPERI, D., *see* GIANNINI **A101** (1967) 145
PRUSSIN, S. G. and J. M. HOLLANDER, Energy levels of $^{210}_{84}Po$ populated by the decay of ^{210}At **A110** (1968) 176
PRUYS, H. .S, *see* BOŠNJAKOVIĆ **A110** (1968) 17
PULLEN, D. J., *see* BROMAN **A110** (1968) 161
PYATOV, N. I., *see* KULIEV **A106** (1968) 689
QUAST, U., *see* BASS **A102** (1967) 190
QUINTANILLA, J., *see* LEY-KOO **A107** (1968) 35
QUIVY, R., Mesure absolue de la section efficace différentielle de diffusion cohérente des gamma de 662 keV dans le plomb **A101** (1967) 417
RAKAVY, M., *see* KHURGIN **A110** (1968) 577
RAMAN, S., Decay of ^{144}Pr to levels in ^{144}Nd **A107** (1968) 402
RAMAVATARAM, S., *see* JOHNSON **A107** (1968) 21
RAMAYYA, A. V., *see* VAN NOOIJEN **A106** (1968) 129
RAMAYYA, A. V., *see* ZGANJAR **A106** (1968) 449
RAND, R. E., *see* FROSCH **A110** (1968) 657
RAO, P. V., *see* CRASEMANN **A103** (1967) 145
RAO, P. V. and R. W. FINK, Levels in ^{108}Pd from decay of 8.5 d ^{108m}Ag, 24 min ^{106}Ag and 30 sec ^{106}Rh **A103** (1967) 385
RAPAPORT, J., *see* BELOTE **A102** (1967) 462
RAPAPORT, J., *see* BELOTE **A109** (1968) 666
RAPAPORT, J., W. E. DORENBUSCH and T. A. BELOTE, Level structure of ^{53}Mn . . **A109** (1968) 657
RAPAPORT, J., *see* DORENBUSCH **A102** (1967) 681
RAPAPORT, J., *see* DORENBUSCH **A109** (1968) 649
RAPAPORT, J., *see* O'BRIEN **A104** (1967) 609
RASMUSSEN, J. O., *see* BERNTHAL **A101** (1967) 513
RASMUSSEN, J. O., *see* COOPER **A109** (1968) 603
RAUCH, F., *see* OBST **A103** (1967) 17
RAYNAL, J., M. A. MELKANOFF and T. SAWADA, Nuclear-spectroscopy calculations including continuum states and application to the giant resonance of ^{16}O . . . **A101** (1967) 369
REIF, R., *see* SCHULZ **A101** (1967) 577
REITMANN, D., *see* BARNARD **A107** (1968) 612

RENBERG, P.-U., *see* SUNDBERG **A101** (1967) 481
RENWICK, B. W., *see* ANDREWS **A109** (1968) 689
REYES-SUTER, P., *see* MORAGUES **A106** (1968) 289
RHO, M., *see* GILLET **A103** (1967) 257
RICCI, E., *see* HAHN **A101** (1967) 353
RICHARDS, F. C., *see* HENLEY **A103** (1967) 361
RICHARDSON, J. R., *see* DOTY **A103** (1967) 417
RICHARDSON, J. R., *see* DOTY **A103** (1967) 404
RICHARDSON, J. R., *see* PETERSEN **A102** (1967) 145
RICHTER, A., *see* HÄUSSER **A109** (1968) 329
RIDLEY, B. W., *see* STAUTBERG **A104** (1967) 67
RIEDEL, C., *see* BROGLIA **A106** (1968) 421
RIEDEL, C., *see* BROGLIA **A107** (1968) 1
RIEDEL, C., *see* DÖNAU **A101** (1967) 495
RIMMER, E. M. and P. S. FISHER, Resonances in the (p, n) reaction on ^{12}C **A108** (1968) 561
RIMMER, E. M., and P. S. FISHER, Resonances in the (n, p) reaction on ^{12}C **A108** (1968) 567
RIOU, M., *see* ARDITI **A103** (1967) 319
RISSER, J. R., *see* KERR **A110** (1968) 637
RITTER, J. C., R. E. LARSON and J. I. HOOVER, $(\gamma, 2n)$, $(\gamma, \alpha n)$ and $(\gamma, \alpha 2n)$ reactions on ^{63}Cu and the decay of ^{56}Co **A110** (1968) 463
ROBERTSON, A. G., *see* MACDONALD **A108** (1968) 6
ROBERTSON, B. C., *see* GILL **A106** (1968) 678
ROBERTSON, B. C., *see* LOPES **A109** (1968) 241
ROBINSON, R. L., *see* FORD, Jr. **A103** (1967) 525
ROBINSON, R. L., F. K. MCGOWAN, P. H. STELSON and W. T. MILNER, Coulomb excitation of ^{73}As **A104** (1967) 401
ROBSON, B. A., *see* NURZYŃSKI **A107** (1968) 581
ROHR, G. and E. FRIEDLAND, A study of neutron resonances in vanadium and manganese **A104** (1967) 1
ROLLEFSON, A. A., *see* BROWN **A107** (1968) 529
ROLLEFSON, A. A., J. X. SALADIN, J. A. BURKE, P. A. CROWLEY and J. R. KERNS, Reaction mechanism of the $^{35}Cl(d, 2\alpha)^{29}Si$ ground state reaction between E_d = 9.0 and 12.0 MeV **A107** (1968) 545
RON, M., *see* SHECHTER **A109** (1968) 588
RÖPKE, H., K. P. LIEB and H. BRUNDIERS, The 4.88 MeV and 5.26 MeV states in ^{38}Ar. . . . **A104** (1967) 529
RÖPKE, H., *see* LIEB **A108** (1968) 233
RÖSCHERT, G., *see* FUCHS **A105** (1967) 590
RÖSCHERT, G., *see* FUCHS **A110** (1968) 65
ROSE, B., *see* JARVIS **A108** (1968) 63
ROSE, H. J., *see* GILL **A106** (1968) 678
ROSE, H., J. *see* LOPES **A109** (1968) 241
ROSENFELD, L., Questions of method in the consistency problem of quantum mechanics **A108** (1968) 241
ROSENZWEIG, N., J. E. MONAHAN and M. L. MEHTA, Perturbation of the statistical properties of nuclear states and transitions by interactions that are odd under time reversal **A109** (1968) 437
ROSENZWEIG, N., *see* MEHTA **A109** (1968) 449
ROSNER, R., *see* HOHENEMSER **A109** (1968) 364
RÖSSLE, E., *see* DEBERTIN **A101** (1967) 473
RÖSSLE, E., *see* DEBERTIN **A107** (1968) 693
RÖTZER, H., Messung von (n, 2n) Wirkungsquerschnitten und Untersuchung von Spinverteilungen an beiden Indiumisotopen **A109** (1968) 694
ROUSSEL, P., *see* NATHAN **A109** (1968) 481
ROWE, D. J., General variational equations for stationary and time-dependent states **A107** (1968) 99

ROY, G., *see* LEIGHTON **A109** (1968) 218
ROYER, D., *see* ARDITI **A103** (1967) 319
RUHLA, C., *see* ARDITI **A103** (1967) 319
RUSH, A. A., *see* LEWIS **A101** (1967) 589
RUSH, A. A., E. J. BURGE, V. E. LEWIS, D. A. SMITH and N. K. GANGULY, Elastic and inelastic scattering of 49.5 MeV protons by ^{24}Mg **A104** (1967) 340
RYDE, H., *see* FRANSSON **A106** (1968) 369
SAKAI, M., Unified perspective of vibrational and rotational models of the nucleus **A104** (1967) 301
SAKAMOTO, K., The half-lives of natural ^{176}Lu and ^{180}Ta **A103** (1967) 134
SAKISAKA, M., *see* IMANISHI **A101** (1967) 654
SALADIN, J. X., *see* BROWN **A107** (1968) 529
SALADIN, J. X., *see* ROLLEFSON **A107** (1968) 545
SAMAMA, R., *see* CARLOS **A107** (1968) 436
SAMOUR, C., *see* MORGENSTERN **A102** (1967) 602
SAMPANTHAR, S., *see* LAWSON **A106** (1968) 669
SANTO, R., *see* BACHNER **A106** (1968) 577
SANTO, R., *see* FITZ **A101** (1967) 449
SARMA, N., *see* LAMBA **A110** (1968) 111
SARTORIS, G., *see* COVELLO **A104** (1967) 189
SATCHLER, G. R., *see* LOVE **A101** (1967) 424
SATPATHY, L. and S. C. GUJRATHI, Studies of odd-mass Co isotopes by the unified model **A110** (1968) 400
SAVITSKY, G. A., *see* SHEVCHENKO **A101** (1967) 187
SAWADA, T., *see* RAYNAL **A101** (1967) 369
SCANLON, J. P., *see* JARVIS **A108** (1968) 63
SCHAUB, R. and W. SCHULER, Circular polarization of neutron-capture gamma rays from ^{65}Zn, ^{69}Zn and ^{57}Fe **A107** (1968) 14
SCHEER, J. A., *see* BOHNE **A106** (1968) 442
SCHEIMBAUER, P. und P. HILLE, Isomerenverhältnis bei der Reaktion ^{203}Tl(n, 2n)^{202m,g}Tl und Halbwertszeit von ^{202m}Tl. **A102** (1967) 534
SCHIMA, F. J. and J. M. R. HUTCHINSON, Energy of the isomeric transition in ^{109}Ag **A102** (1967) 667
SCHINTLMEISTER, J., *see* MÖSNER **A103** (1967) 238
SCHLEGEL, G. K., *see* MOORE **A104** (1967) 327
SCHMID, H., *see* WEIGMANN **A104** (1967) 513
SCHMIDT, G., *see* MÖSNER **A103** (1967) 238
SCHMIDT NIELSEN, B., *see* KURCEWICZ **A108** (1968) 434
SCHMIDT-ROHR, U., *see* HINTERBERGER **A106** (1968) 161
SCHÖTZIG, U., *see* KOCH **A103** (1967) 300
SCHRAMM, D. N., *see* COSMAN **A109** (1968) 305
SCHUBERT, K. R., *see* GÜNTHER **A101** (1967) 288
SCHULER, W., *see* SCHAUB **A107** (1968) 14
SCHULZ, G., Electron capture ratios in the decay of ^{83}Rb, ^{84}Rb, ^{131}Cs and ^{185}Os . . **A101** (1967) 177
SCHULZ, H., J. WIEBICKE and R. REIF, Single-particle states in non-local potentials and direct nuclear reactions **A101** (1967) 577
SCHULZ, G. and K. ZIEGLER, Electron capture ratios in the decay of ^{105}Ag . . . **A104** (1967) 692
SCHWANDT, P. and W. HAEBERLI, Elastic scattering of polarized deuterons from ^{27}Al, Si and ^{60}Ni between 7 and 11 MeV **A110** (1968) 585
SCHWARZSCHILD, A., *see* BEN-ZVI **A109** (1968) 201
SCHWARZSCHILD, A., *see* BLAUGRUND **A107** (1968) 411
SEBE, T., A note on the SU_3 coupling coefficients in the 2s-1d shell **A109** (1968) 65
SEGEL, R. E., *see* MEYER-SCHÜTZMEISTER **A108** (1968) 180
SEZON, M., *see* FLEROV **A102** (1967) 443
SHAFROTH, S. M., *see* COSMAN **A108** (1968) 519
SHAFROTH, S. M. and G. J. F. LEGGE, A (p, γ_0) study of the decay of isospin analogue resonances from 13-16 MeV in ^{89}Y **A107** (1968) 181
SHAKER, M. O. and A. A. KRESNIN, Superfluidity nuclear model and odd-mass nuclei **A101** (1967) 333

SHAKIN, C. M., *see* DA PROVIDÊNCIA **A108** (1968) 609
SHAPIRO, M. H., *see* HINRICHSEN **A101** (1967) 81
SHARMA, H. C., and N. NATH, Spectroscopic information on the ^{127}I levels through neutron scattering **A106** (1968) 241
SHARMA, R. P., *see* PANDHARIPANDE **A104** (1967) 525
SHARMA, R. P., *see* PANDHARIPANDE **A109** (1968) 81
SHARPEY-SCHAFER, J. F., *see* FORSTER **A101** (1967) 113
SHELDON, E., *see* PERRENOUD **A102** (1967) 105
SHECHTER, H., and M. RON, Effects of carbon impurities on the intensity ratios of the Mössbauer spectrum of metallic iron **A109** (1968) 588
SHELINE, R. K., *see* KERN **A104** (1967) 642
SHELINE, R. K., *see* MIKOSHIBA **A101** (1967) 202
SHEVCHENKO, N. G., N. G. AFANASYEV, G. A. SAVITSKY, V. M. KHVASTUNOV, I. S. GULKAROV, A. S. OMELAYENKO and V. D. KOVALYOV, Elastic scattering of 225 MeV electrons on the ^{139}La nucleus **A101** (1967) 187
SHLOMO, S. and R. MOREH, Calculated gamma transitions between ^{18}O levels . . **A110** (1968) 204
SIDDIQI, T. A., N. FIEBIGER and K. STELZER, The nuclear level structure of ^{76}As studied by the ^{75}As(n, γ)^{76}As reaction **A101** (1967) 673
SIEMSEN, R. H., *see* WEIDINGER **A108** (1968) 547
SIEMSSEN, R. H., *see* FELST **A108** (1967) 666
SIIVOLA, A., $^{190-200}$Po produced through heavy ion bombardments **A101** (1967) 129
SIIVOLA, A., Alpha-active gold isotopes **A109** (1968) 231
SIIVOLA, A., *see* GRAEFFE **A109** (1968) 380
SIIVOLA, A. and G. GRAEFFE, The decay of ^{97}Zr **A109** (1968) 369
SIIVOLA, A., *see* LUNDÁN **A106** (1968) 417
SILBAR, R. and H. ÜBERALL, Nuclear photon scattering **A109** (1968) 146
SILBAR, R., C. WERNTZ and H. ÜBERALL, The amplitude of nuclear photon scattering and its Thomson limit **A107** (1968) 655
SILVA, R. J., *see* CHETHAM-STRODE, Jr. **A107** (1968) 645
SIMPSON, W. D., *see* CHEN **A106** (1968) 1
SIMPSON, W. D., *see* FRIEDES **A104** (1967) 294
SIMPSON, W. D., W. R. JACKSON and G. C. PHILLIPS, The ^{2}H(p, 2p)n reaction at 9.0 and 10.5 MeV **A103** (1967) 97
SINEX, C. H., *see* BLAKE **A102** (1967) 305
SINEX, C. H., *see* BLAKE **A107** (1968) 253
SINGH, P. P., *see* MEYER-SCHÜTZMEISTER **A108** (1968) 180
SIWEK, K., *see* DECOWSKI **A110** (1968) 129
ŠLAUS, I., *see* PETERSEN **A102** (1967) 145
SLIVINSKY, V. W. and R. G. WINTER, Investigations of ^{41}K by proton-induced reactions on ^{40}Ar **A102** (1967) 295
SLOBODRIAN, R. J., J. S. C. MCKEE, D. J. CLARK, W. F. TIVOL and T. A. TOMBRELLO, A search for excited states of ^{9}He **A101** (1967) 109
SLOBODRIAN, R. J., *see* MCKEE **A108** (1968) 177
SMIRNOV, Yu. F., *see* KUKULIN **A103** (1967) 681
SMITH, D. A., *see* CALDERBANK **A105** (1967) 601
SMITH, D. A., *see* LEWIS **A101** (1967) 589
SMITH, D. A., *see* RUSH **A104** (1967) 340
SMITH, D. L., H. Y. CHEN and H. A. ENGE, The ^{62}Ni(^{3}He, d)^{63}Cu reaction at 11.0 MeV **A107** (1968) 639
SMITH, S. M., *see* BELOTE **A102** (1967) 462
SOLF, J., *see* WIEDNER **A103** (1967) 433
SOOD, D. K., *see* LAMBA **A110** (1968) 111
SØRENSEN, B., *see* BROGLIA **A107** (1968) 1
SØRENSEN, B., *see* BROGLIA **A109** (1968) 353
SØRENSEN, B., *see* BROGLIA **A110** (1968) 241
SPEIDEL, K.-H., *see* LIEDER **A106** (1968) 389

SPEJEWSKI, E. H., *see* HSUE **A101** (1967) 688
SPEJEWSKI, E. H., *see* HSUE **A109** (1968) 423
SPENCER, M. B., A description of elastic scattering and polarization of spin-half particles by the complex angular momentum method **A102** (1967) 545
SPICER, B. M., *see* CANNINGTON **A109** (1968) 385
SPILLING, P., H. GRUPPELAAR and A. M. F. OP DEN KAMP, Thermal-neutron capture gamma rays from natural magnesium and enriched ^{25}Mg **A102** (1967) 209
SPILLING, P., *see* GRUPPELAAR **A102** (1967) 226
SPRINZAK, A., *see* ASHERY **A101** (1967) 51
ST.-PIERRE, C., P. N. MAHESHWARI, D. DOUTRIAUX and L. LAMARCHE, Spectroscopic study of ^{47,49,51}V with the (^{3}He, d) reaction at 10 MeV **A102** (1967) 433
STACHURA, Z., *see* KORMICKI **A102** (1967) 253
STAMP, A. P., Hartree-Fock fields for nuclei in the s-d shell **A105** (1967) 627
START, D. F. H., *see* MACDONALD **A108** (1968) 6
STARY, F., *see* HAGEMANN **A109** (1968) 407
STAUB, H. H., *see* BENN **A106** (1968) 296
STAUTBERG, M. M., R. R. JOHNSON, J. J. KRAUSHAAR and B. W. RIDLEY, The ^{94}Zr(p, p′) and ^{94}Zr(p, d) reaction at 19.4 MeV **A104** (1967) 67
STCHEGOLEV, V. A., *see* FLEROV **A106** (1968) 476
STELSON, P. H., *see* ROBINSON **A104** (1967) 401
STELZER, K., *see* SIDDIQI **A101** (1967) 673
STEPHAS, G., *see* CRASEMANN **A103** (1967) 145
STEPHENS, G. A., *see* FORSTER **A101** (1967) 113
STEPIĆ, R., *see* BODGANOVIĆ **A106** (1968) 209
STEWART, D. T., *see* MCDONALD **A104** (1967) 177
STEWART, R. J. J., *see* CANNINGTON **A109** (1968) 385
STIEWE, J., *see* WENNINGER **A109** (1968) 561
STOBIE, V. W., *see* HUTCHEON **A107** (1968) 266
STOCK, R., R. BOCK, P. DAVID, H. H. DUHM and T. TAMURA, Test of the DWBA in (^{3}He, α) reactions leading to configuration and analogue states **A104** (1967) 136
STOROZHENKO, S. A., *see* KHARCHENKO **A106** (1968) 464
STOVALL, T., Effects of the radial wave functions on the high-energy electron scattering problem **A102** (1967) 554
STRYCZNIEWICZ, K., *see* JASTRZĘBSKI **A104** (1967) 459
STRZAŁKOWSKI, A., *see* BUDZANOWSKI **A106** (1968) 21
SUAREZ, A. A., T. VON EGIDY, W. KAISER, H. F. MAHLEIN and A. JONES, Conversion electrons of ^{185}Re following neutron capture **A107** (1968) 417
SUBBOTIN, V. G., *see* DEMIN **A106** (1968) 337
SUELZLE, L. R., *see* FROSCH **A110** (1968) 657
SUELZLE, L. R., *see* CRANNELL **A103** (1967) 677
SUGAWARA, K., The form factor of stripping reaction in the Hartree-Fock approximation **A110** (1968) 305
SUFFERT, M., *see* KRAUS **A109** (1968) 593
SULLIVAN, D. J., *see* CLARK **A110** (1968) 481
SUNDBERG, O., A. JOHANSSON, G. TIBELL, S. DAHLGREN, D. HASSELGREN, B. HÖISTAD, A. INGEMARSSON and P.-U. RENBERG, Excited levels of ^{29}Si investigated by inelastic scattering of 185 MeV protons **A101** (1967) 481
SUNIER, J. W., *see* DOTY **A103** (1967) 417
SUNIER, J. W., *see* DOTY **A103** (1967) 404
SÜSSMANN, G., *see* HASSE **A106** (1968) 117
SUTER, T., *see* MORAGUES **A106** (1968) 289
SUTTER, R. J., *see* FRIEDES **A104** (1967) 294
SUZUKI, K., *see* MARUMORI **A106** (1968) 610
SWENSON, L. W., *see* HOROSHKO **A104** (1967) 113
SYKUTOWSKI, S., *see* BUDZANOWSKI **A106** (1968) 21
SYMONS, G. D., *see* FRANSSON **A106** (1968) 369

SZICHMAN, E., *see* BOSCH **A108** (1968) 209
SZMIDER, J., *see* BUDZANOWSKI **A106** (1968) 21
TADIĆ, D., *see* EMAN **A104** (1967) 386
TAKEUCHI, Y., Y. HIRATATE, K. MIURA, T. TŌHEI and S. MORITA, The $2I+1$ rule and the reaction mechanism of the $^{19}F(d, \alpha)^{17}O$ reaction **A109** (1968) 105
TAKEUTCHI, F., *see* VERNOTTE **A102** (1967) 449
TAMURA, T., *see* STOCK **A104** (1967) 136
TAMURA, T., *see* THOMPSON **A105** (1967) 678
TAN WAN-TJIN, *see* LÜDECKE **A109** (1968) 676
TANDON, P. N. and H. G. DEVARE, Measurement of the g-factors of two levels of ^{121}I **A102** (1967) 203
TANG, Y. C., *see* THOMPSON **A106** (1968) 591
TARRANT, J. R., *see* CHETHAM-STRODE, Jr. **A107** (1968) 645
TARRATTS, A., *see* MANI **A107** (1968) 624
TARRATS, A., *see* DARRIULAT **A108** (1968) 316
TAYLOR, H. W., N. NEFF and J. D. KING, The decay of 8 d ^{106m}Ag **A106** (1968) 49
TEMPERLEY, J. K. and A. A. TEMPERLEY, Gamma-ray transitions in ^{104}Pd following the decay of ^{104m}Ag **A101** (1967) 641
TEMPERLEY, A. A., *see* TEMPERLEY **A101** (1967) 641
TENDAM, D. J., *see* HEMSKY **A105** (1967) 665
TEPEL, J., *see* FELST **A108** (1968) 666
TESTONI, J., *see* DARONIAN **A104** (1967) 111
TESTONI, J., *see* DARRIULAT **A108** (1968) 316
TESTONI, J., *see* NATHAN **A109** (1968) 481
THAMPI, N. S., *see* LAMBA **A110** (1968) 111
THIRION, J., *see* ARVIEUX **A102** (1967) 503
THOMAS, M. F., *see* LEWIS **A107** (1968) 273
THOMAS, T. D., *see* WILLIAMS **A107** (1968) 552
THOMAS, Jr., R. G. and W. BARTOLINI, Excitation functions for (p, n) and (p, 2n) interactions in Sc, Cr, Mo, Cd and W between 8 and 14 MeV **A106** (1968) 323
THOMPSON, D. R., and Y. C. TANG, Study of $^2H+^2H$, $^3H+^3He$ and $^3He+^3He$ systems with the resonating-group method **A106** (1968) 591
THOMPSON, W. J., S. EDWARDS and T. TAMURA, Coupled channel analysis of proton scattering from ^{19}F. **A105** (1967) 678
THOMPSON, W. J., *see* HÄUSSER **A109** (1968) 329
THORSTEINSEN, T., *see* GROTDAL **A110** (1968) 385
THOSAR, B. V., *see* PANDHARIPANDE **A109** (1968) 81
THURLOW, N., Analogue state (p, n) reactions at 94 MeV **A109** (1968) 471
THWAITES, T. T., *see* HIGHLAND **A109** (1968) 163
THWAITES, T. T., *see* NAHM **A103** (1967) 503
TIBELL, G., *see* SUNDBERG **A101** (1967) 481
TINDLE, C. T., The polarization-asymmetry difference in the scattering of medium-energy nucleons **A110** (1968) 193
TIRSELL, K. G. and S. D. BLOOM, β-γ(CP) correlation studies of ^{72}Ga and spin assignments in ^{74}Ge **A103** (1967) 461
TIVOL, W. F., *see* MCKEE **A108** (1968) 177
TIVOL, W. F., *see* SLOBODRIAN **A101** (1967) 109
TIWARI, P. N. and E. KONDAIAH, Level density parameter in the mass region 24 to 48 . . . . . **A110** (1968) 317
TJIN A DJIE, H. R. E., K. MULDER, F. UDO, A. GROENEVELD, L. A. CH. KOERTS, A. D. HILL and P. E. HODGSON, Inelastic scattering of 26 MeV deuterons . . . **A106** (1968) 85
TJØM, P. O. and B. ELBEK, Collective vibrational states in even erbium nuclei . . **A107** (1968) 385
TŌHEI, T., *see* TAKEUCHI **A109** (1968) 105
TOMAŠ, P., *see* MILJANIĆ **A106** (1968) 401
TOMASELLI, G., *see* OTTO **A109** (1968) 118
TOMBRELLO, T. A., *see* MEYERHOF **A109** (1968) 1

TOMBRELLO, T. A., *see* SLOBODRIAN **A101** (1967) 109
TOMUSIAK, E. L., *see* NICKEL **A102** (1967) 655
TORVUND, P., *see* GRAUE **A103** (1967) 209
TOTH, K. S., *see* ADAM **A106** (1968) 275
TOUMBEV, G., *see* GIANNINI **A101** (1967) 145
TRÄCHSLIN, W. and L. BROWN, Polarization and phase shifts in $^{12}C(p, p)^{12}C$ and $^{16}O(p, p)^{16}O$ from 1.5 to 3 MeV **A101** (1967) 273
TRAINOR, L. E. H. and R. K. GUPTA, Electron scattering and the spectroscopy of pseudo-nuclei **A108** (1968) 257
TREACY, P. B., *see* CLARK **A110** (1968) 481
TREHERNE, J., *see* JASTRZĘBSKI **A104** (1967) 459
TRETYAKOVA, S. P., *see* FLEROV **A102** (1967) 443
TRÓN, L., *see* DEMIN **A106** (1968) 337
TRUÖL, P., *see* MEYER **A101** (1967) 321
TUDORIĆ-GHEMO, J., *see* VESELIĆ **A110** (1968) 225
TUREK, P., *see* HINTERBERGER **A106** (1968) 161
TURKIEWICZ, J., *see* JASKÓŁA **A110** (1968) 11
TVETER, A., *see* FRANSSON **A106** (1968) 369
TWIN, P. J., *see* LEWIS **A107** (1968) 273
ÜBERALL, H., *see* SILBAR **A107** (1968) 655
ÜBERALL, H., *see* SILBAR **A109** (1968) 146
UDAGAWA, T., *see* KERN **A104** (1967) 642
UDAGAWA, T., *see* MIKOSHIBA **A101** (1967) 202
UDO, F., *see* TJIN A DJIE **A106** (1968) 85
UEMURA, Y., *see* IMANISHI **A101** (1967) 654
UGUZZONI, A., *see* FUSCHINI **A109** (1968) 465
UHRHANE, F. J., *see* CRANNELL **A103** (1967) 677
ULRICI, W., W. R. HERING, Accuracy of the local energy approximation to non-locality effects of bound-state wave functions **A110** (1968) 281
UNGER, H.-J., On the factorization of the wave function and the Green function in the region of isolated poles of the *S*-function **A104** (1967) 564
UNGER, H.-J., *see* KABACHNIK **A103** (1967) 450
VAGER, Z., *see* BEN-ZVI **A109** (1968) 201
VAGER, Z., *see* DEHNHARD **A104** (1967) 202
VAGER, Z., *see* MEYER-SCHÜTZMEISTER **A108** (1968) 180
VALENTIN, L., *see* NATHAN **A109** (1968) 481
VALKOVIĆ, V., C. JOSEPH, S. T. EMERSON and G. C. PHILLIPS, Two-particle coincidence spectra from the $p+{}^6Li \to p+d+\alpha$ reaction **A106** (1968) 138
VAN BEEK, H. F., *see* KONIJN **A102** (1967) 129
VAN BEST, J. A., *see* BOŠNJAKOVIĆ **A110** (1968) 17
VANDENBOSCH, R., Channel analysis of cross sections and angular distributions for fission induced by neutrons and photons **A101** (1967) 460
VAN DER LEUN, C., *see* ENDT **A105** (1967) 1
VAN DER MERWE, P., W. R. MCMURRAY and I. J. VAN HEERDEN, The $^6Li(^3He, n)^8B$ reaction mechanism **A103** (1967) 474
VAN DER WOUDE, A., *see* GROSS **A102** (1967) 673
VAN DUINEN, R. J., *see* BEEKHUIS **A108** (1968) 382
VAN HEERDEN, I. J., *see* VAN DER MERWE **A103** (1967) 474
VAN LEUVEN, P., *see* BOUTEN **A102** (1967) 322
VAN NESTE, L., *see* COUSSEMENT **A102** (1967) 363
VAN NESTE, L., R. COUSSEMENT and J. P. DEUTSCH, The (0^+)-(0^+) beta transition in ^{154}Eu **A102** (1967) 369
VANNINI, G., *see* FUSCHINI **A109** (1968) 465
VAN NOOIJEN, B., *see* KONIJN **A102** (1967) 129
VAN NOOIJEN, B., A. MEULENBERG, Jr., A. V. RAMAYYA, J. N. HAMILTON and J. J. PINAJIAN, Beta-gamma circular polarization correlation in the decay of ^{49}V . . **A106** (1968) 129

VAN PATTER, D. M., *see* HINRICHSEN **A101** (1967) 81
VAN PATTER, D. M., *see* HOROSHKO **A104** (1967) 113
VAN RIJ, W. I., Polarization effects in the (d, p) stripping reaction **A102** (1967) 286
VARGA, D., *see* BERÉNYI **A106** (1968) 248
VARMA, S., Transfer reactions in scattering of complex nuclei **A106** (1968) 233
VASVÁRI, B., *see* BERÉNYI **A106** (1968) 248
VĂŢĂ, I., *see* BOGDAN **A109** (1968) 347
VEDELSBY, P., *see* BONDORF **A101** (1967) 338
VEJE, E., An experimental study of the nuclei ^{147}Sm and ^{149}Sm **A103** (1967) 188
VEJE, E., *see* BISCÁRD **A103** (1967) 545
VEJE, E., B. ELBEK, B. HERSKIND and M. C. OLESEN, Inelastic deuteron scattering from ^{148}Sm, ^{150}Sm, ^{152}Sm and ^{154}Sm **A109** (1968) 489
VELKLEY, D., *see* BARROWS **A107** (1968) 153
VERBA, J. W., *see* PETERSEN **A102** (1967) 145
VERNOTTE, J., M. LANGEVIN et F. TAKEUTCHI, Niveaux de ^{32}S observés dans les réactions ^{31}P(p, α_0)^{28}Si et ^{29}Si(α,γ)^{33}S **A102** (1967) 449
VERONDINI, E., *see* FUSCHINI **A109** (1968) 465
VERVIER, J., Energy levels of ^{53}Fe **A103** (1967) 222
VESELIĆ, Đ. and J. TUDORIĆ-GHEMO, Neutron-induced (n, α) reactions on ^{103}Rh and indium at E_n = 14 MeV **A110** (1968) 225
VIGNAU, H., A. MOCOROA, R. OTHAZ and N. BAADE, Electron-gamma directional correlation experiments in ^{74}As **A110** (1968) 56
VÎLCOV, I., *see* FLEROV **A102** (1967) 443
VÎLCOV, N., *see* FLEROV **A102** (1967) 443
VINCENT, C. M., SU_3 reduction of interactions in the d-s shell **A106** (1968) 35
VINCENT, C. M., Wigner-Eckart theorem applied to SU_2 matrix elements of central interactions **A106** (1968) 104
VINCENT, C. M., SU_6 and SU_3 selection rules in the structure of d-s shell states . . **A106** (1968) 199
VISTISEN, L., *see* BJERREGAARD **A110** (1968) 1
VITALE, A., *see* FUSCHINI **A109** (1968) 465
VON EGIDY, T., *see* SUAREZ **A107** (1968) 417
VON WITSCH, W., *see* HÄUSSER **A109** (1968) 329
VYMAZAL, M., Two-nucleon virtual levels in direct nuclear reactions **A109** (1968) 236
WAGNER, G. J., *see* HINTERBERGER **A106** (1968) 161
WAGNER, R. R. and R. A. PECK Jr., The ^{32}S(d, n)^{31}P and ^{34}S(n, d)^{33}P reactions at 14 MeV **A110** (1968) 81
WAHLBORN, S., *see* MALMSKOG **A102** (1967) 273
WAHLBORN, S., *see* MALMSKOG **A103** (1967) 481
WAHSWEILER, H. G., *see* KRAPPE **A104** (1967) 633
WAHSWEILER, H. G., *see* OBST **A103** (1967) 17
WALTERS, W. B., *see* BAEDECKER **A107** (1968) 449
WALTERS, W. B., *see* BERZINS **A104** (1967) 241
WALTERS, W. B., *see* PARSA **A110** (1968) 674
WALTERS, W. B., *see* WILD **A103** (1967) 601
WANG, W. N., E. K. LIN, R. CHIBA, T. J. LEE, Y. C. YANG, C. C. HSU and T. CHIAO, The $2J+1$ rule in the ^{25}Mg(d, α)^{23}Na reaction at low energies **A102** (1967) 537
WARNER, R. E. and R. W. BERCAW, Deuteron break-up by 42 MeV alpha particles **A109** (1968) 205
WARSH, K. L., *see* FORD, Jr. **A103** (1967) 525
WATSON, C. E., *see* MISHRA **A110** (1968) 353
WEIDENMÜLLER, H. A., *see* HÜFNER **A105** (1967) 489
WEIDINGER, A., R. H. SIEMSSEN, G. C. MORRISON and B. ZEIDMAN, The reaction ^{25}Mg(^{3}He, d)^{26}Al at 12 MeV **A108** (1968) 547
WEIGMANN, H. and H. SCHMID, Neutron radiative capture in Mo **A104** (1967) 513
WEIGT, P., P. HERZOG, H. HÜBEL and E. BODENSTEDT, Determination of the parity of the 305 keV state of ^{69}V by linear polarization correlation measurements . . **A106** (1968) 570

WEIGT, P., *see* HÜBEL **A107** (1968) 106
WENNINGER, H., J. STIEWE and H. LEUTZ, The ^{22}Na positon spectrum **A109** (1968) 561
WERNER, H., *see* LÜDECKE **A109** (1968) 676
WERNTZ, C., *see* SILBAR **A107** (1968) 655
WESOLOWSKI, J. J., *see* LUTZ **A101** (1967) 241
WESTGAARD, L., *see* CHRISTENSEN **A102** (1967) 481
WHITEHEAD, C., *see* AULD **A101** (1967) 65
WIEBICKE, J., *see* SCHULZ **A101** (1967) 577
WIEDENBECK, M. L., *see* PALATHINGAL **A101** (1967) 193
WIEDNER, C. A., A. HEUSLER, J. SOLF and J. P. WURM, Optical-model parameters and the analysis of (d, p) stripping experiments on ^{138}Ba, ^{140}Ce and $^{142, 144, 148}$Nd **A103** (1967) 433
WIGAN, M. R., *see* JARVIS **A108** (1968) 63
WILD, J. F. and W. B. WALTERS, Decay of 9.6 d ^{132}Sn to levels of ^{132}Sb **A103** (1967) 601
WILDENTHAL, B. H. and P. W. M. GLAUDEMANS, Spectroscopic factors from the reaction ^{30}Si (d, p)^{31}Si **A108** (1968) 49
WILDENTHAL, B. H., *see* GLAUDEMANS **A102** (1967) 593
WILHELMI, Z., *see* JASKÓŁA **A110** (1968) 11
WILHELMI, Z., *see* DECOWSKI **A110** (1968) 129
WILHJELM, P., *see* GAARDE **A102** (1967) 1
WILLETT, J. B., *see* HSUE **A101** (1967) 688
WILLIAMS, D. C. and T. D. THOMAS, The analysis of nuclear evaporation spectra: charged particle emission **A107** (1968) 552
WILLIAMS, I. R., *see* CHETHAM-STRODE, Jr. **A107** (1968) 645
WILLIAMS, S. A., *see* LARNER **A107** (1968) 354
WILMORE, D., *see* DIETZSCH **A106** (1968) 527
WINKLER, H., *see* BENN **A106** (1968) 296
WINTER, R. G., *see* SLIVINSKY **A102** (1967) 295
WOLFF, A. C., M. A. MEYER and P. M. ENDT, A study of the excited states of ^{31}P with the ^{30}Si(p, γ)^{31}P reaction **A107** (1968) 332
WOLFSON, Y., *see* ASHERY **A101** (1967) 51
WOLSKI, R., *see* BUDZANOWSKI **A106** (1968) 21
WONG, C. W., Application of the reaction matrix theory (II). Simple Brueckner-Hartree-Fock descriptions of the ground states of light nuclei **A104** (1967) 417
WONG, C. W., Spin-orbit splitting in the conventional spherical Hartree-Fock theory **A108** (1968) 481
WONG, C. Y., On the production of the superheavy nucleus ^{310}126 . . . . . **A103** (1967) 625
WONG, S. S. M. and D. L. LIN, The electric charge form factor of ^{6}Li **A101** (1967) 663
WOOD, E., *see* AULD **A101** (1967) 65
WURM, J. P., *see* CLAUSNITZER **A106** (1968) 99
WURM, J. P., *see* WIEDNER **A103** (1967) 433
YAGI, K., *see* ISHIMATSU **A104** (1967) 481
YANG, Y. C., *see* WANG **A102** (1967) 537
YANO, F. B., SU(3) classification of nuclear wave functions in mixed 1p, 1d-2s shells **A102** (1967) 376
YEARIAN, M. R., *see* CRANNELL **A103** (1967) 677
YEARIAN, M. R., *see* FROSCH **A110** (1968) 657
YOUNG, A. M., *see* LING **A108** (1968) 221
YOUNG, P. G., *see* IVANOVICH **A110** (1968) 441
YOSHIDA, S., *see* KERN **A104** (1967) 642
YOSHIDA, S., *see* MIKOSHIBA **A101** (1967) 202
YU, D. U. L., *see* HENLEY **A103** (1967) 361
YUASA, T. et E. HOURANY, Réactions (p, 2p) coplanaires et non-coplanaires dans le ^{12}C **A103** (1967) 577
YVON, P., *see* CABÉ **A102** (1967) 92
ZAIKIN, D., *see* FEDERMAN **A102** (1967) 81
ZAMICK, L., *see* MAVROMATIS **A104** (1967) 17

ZATZICK, M. R., *see* MAXSON **A110** (1968) 609
ZEIDMAN, B., *see* WEIDINGER **A108** (1968) 547
ZEITNITZ, B., *see* FELST **A108** (1968) 666
ZGANJAR, E. F., J. H. HAMILTON and A. V. RAMAYYA, Note on the energy dependence of the beta-gamma directional correlation in the decay of ^{154}Eu **A106** (1968) 449
ZIEGLER, K., *see* SCHULZ **A104** (1967) 692
ZIMMERER, J., *see* LÜDECKE **A109** (1968) 676
ZIONI, J., A. A. JAFFE, CH. DRORY and M. HARCHOL, Isobaric analogue resonances in (p, n) reactions on ^{78}Se, ^{80}Se, ^{82}Se and ^{87}Rb **A109** (1968) 401
ZUBER, K., *see* KORMICKI **A102** (1967) 253
ZUCKER, A., *see* GROSS **A102** (1967) 673
ZUKER, A. P., A new approximation for the pairing problem in nuclei **A106** (1968) 641

SUBJECT INDEX

1. Nuclear structure

1.B *Two- and three-body problems*

The ^{2}H(p, 2p)n reaction at 9.0 and 10.5 MeV, W. D. Simpson, W. R. Jackson and G. C. Phillips **A103** (1967) 97
The three-nucleon problem with the Hamada potential, B. Davies **A103** (1967) 165
On the symmetric S- and D-state components of the triton wave function, M. McMillan and M. Best **A105** (1967) 649
Consistency of the low-energy three-nucleon observables and the separable interaction model, A. C. Phillips **A107** (1968) 209
Euler angles for three and four identical particle systems (III). Helicity formalism, R. Laverrière and J. Proriol **A109** (1968) 433
The S′ state in the trinucleon, T. K. Lim **A109** (1968) 641
Short-range correlations and the tri-nucleon, T. K. Lim **A110** (1968) 417

1.C *Many-particle systems*

Nuclear matter calculations using separable potentials, B. S. Bhakar and R. J. McCarthy **A104** (1967) 283
Four-body correlations in nuclear matter, P. A. Lawson and S. Sampanthar **A106** (1968) 669
General variational equations for stationary and time-dependent states, D. J. Rowe **A107** (1968) 99
Group theory of harmonic oscillators (IV). Dynamics of the two-, three and four-particle systems, P. Kramer and M. Moshinsky . . **A107** (1968) 481
Density matrix approach to the atomic nuclei. Anomalous E1 transitions, para- and orthostates, isobaric analogue states, B. L. Birbrair **A108** (1968) 449

1.D *Nuclear models*

1.D.1 *Shell model*

Spectroscopic factors for the 1p shell, S. Cohen and D. Kurath **A101** (1967) 1
Nuclear-spectroscopy calculations including continuum states and application to the giant resonance of ^{16}O, J. Raynal, M. A. Melkanoff and T. Sawada **A101** (1967) 369
Five-dimensional quasi-spin. The n, T dependence of shell-model matrix elements in the seniority scheme, K. T. Hecht **A102** (1967) 11
SU(3) classification of nuclear wave functions in mixed 1p, 1d-2s shells, F. B. Yano **A102** (1967) 376
Two-body matrix elements from a modified surface delta interaction, P. W. M. Glaudemans, P. J. Brussaard and B. H. Wildenthal **A102** (1967) 593
State dependence of shell-model reaction matrix elements, T. T. S. Kuo **A103** (1967) 71
The energy levels of ^{55}Fe, J. Vervier **A103** (1967) 222
The extended two-particle shell model in light nuclei, J. A. Evans and R. P. J. Perazzo **A103** (1967) 225

A phenomenological test of the independent quasi-particle model, V. Gillet, B. Giraud and M. Rho **A103** (1967) 257
A symmetry in the effective interaction of Kuo and Brown, J. C. Parikh and K. H. Bhatt. **A103** (1967) 496
Wave functions for mixed configurations and the Racah algebra of SU(4), V. I. Kukulin, Yu. F. Smirnov and L. Majling . **A103** (1967) 681
DWBA in the shell-model approach to nuclear reactions, J. Hüfner, C. Mahaux and H. A. Weidenmüller **A105** (1967) 489
Hartree-Fock fields for nuclei in the s-d shell, A. P. Stamp . . **A105** (1967) 627
SU_3 reduction of interactions in the d-s shell, C. M. Vincent . **A106** (1968) 35
G-matrix interaction in the nuclear 1p shell, P. Goldhammer, J. R. Hill and J. Nachamkin **A106** (1968) 62
Wigner-Eckart theorem applied to SU_3 matrix elements of central interactions, C. M. Vincent **A106** (1968) 104
Shell model calculations on $1f_{\frac{7}{2}}^{n}$ and $1f_{\frac{7}{2}}^{n+1}\,1d_{\frac{3}{2}}^{-1}$ configurations, A. E. L. Dieperink and P. J. Brussaard **A106** (1968) 177
SU_4 and SU_3 selection rules in the structure of d-s shell states, C. M. Vincent **A106** (1968) 199
Four-body correlations in light nuclei (I). First excited 0^+ states in ^{16}O and ^{40}Ca, T. Marumori and K. Suzuki **A106** (1968) 610
A new approximation for the pairing problem in nuclei, A. P. Zuker. **A106** (1968) 641
Particle-hole states in ^{48}Ca according to the SU_3 scheme, D. Larner and S. A. Williams **A107** (1968) 354
A shell-model calculation of ^{18}F and ^{18}O using the Tabakin interaction, D. M. Clement and E. U. Baranger **A108** (1968) 27
A shell-model study of the isotopes of O, F and Ne, A. Arima, S. Cohen, R. D. Lawson and M. H. MacFarlane **A108** (1968) 94
Electron scattering and the spectroscopy of pseudo-nuclei, L. E. H. Trainor and R. K. Gupta **A108** (1968) 257
Spin-orbit splitting in the conventional spherical Hartree-Fock theory, C. W. Wong **A108** (1968) 481
An extension of the random phase approximation, J. da Providência **A108** (1968) 589
Corrections to electromagnetic transition rates due to ground-state correlations, J. da Providência and C. M. Shakin . . . **A108** (1968) 609
A note on the SU_3 coupling coefficients in the 2s-1d shell, T. Sebe **A109** (1968) 65
A remark on nuclear hole states in quasi-free scattering, V. E. Herscovitz, G. Jacob and Th. A. J. Maris **A109** (1968) 478
Accuracy of the local energy approximation to non-locality effects on bound-state wave functions, W. Ulrici and W. R. Hering **A110** (1968) 281
Projected Hartree-Fock spectra in 1f-2p shell nuclei, S. B. Khadkikar and M. R. Gunye **A110** (1968) 472

1.D.2 *Collective model*

$K = 0^+$ excited levels in deformed nuclei and their rotational coupling, O. Mikoshiba, R. K. Sheline, T. Udagawa and S. Yoshida **A101** (1967) 202
Core polarization and the microscopic model of inelastic scattering, W. G. Love and G. R. Satchler **A101** (1967) 424
Influence of Coriolis coupling, pairing and octupole vibration-particle coupling on $\Delta K = -1$ E1 transitions in ^{177}Hf, F. M. Bernthal and J. O. Rasmussen **A101** (1967) 513

A negative-parity asymmetric model for ^{229}Th, M. G. Davidson **A103** (1967) 153
The $|\Delta K| = 1$, E1 transitions in odd-mass isotopes of Tb and Eu, S. G. Malmskog, A. Marelius and S. Wahlborn . . . **A103** (1967) 481
Collective monopole vibrations in closed-shell nuclei, J. Blomqvist . . . **A103** (1967) 644
Collective vibrations in even-mass mercury isotopes, A. Covello and G. Sartoris . . . **A104** (1967) 189
Collective 0^- vibrations in even spherical nuclei with tensor forces, J. Blomqvist and A. Molinari . . . **A106** (1968) 545
Two-nucleon transfer and pairing phase transition, R. A. Broglia, C. Riedel and B. Sørensen . . . **A107** (1968) 1
Description of the nuclear rotational bands by the collective variable method, E. Nadjakov and I. N. Mikhailov . . . **A107** (1968) 92
Corrections to the reorientation effect of Coulomb excitation in deformed doubly even nuclei, B. Greiner and H. Arenhövel . . . **A107** (1968) 225
Higher-order corrections to collective particle-hole excitations using Green function techniques, B. R. Barrett . . . **A109** (1968) 129
Spin vibrational 1^+ states in ^{208}Pb, R. A. Broglia, A. Molinari and B. Sørensen . . . **A109** (1968) 353
$K = 1, 2, 3$ octupole vibrations, P. O. Lipas, K. Kurki-Suonio and E. Peltola . . . **A110** (1968) 211
Comparison between a boson-expansion method and the exact solution in a two-level model, R. A. Broglia and B. Sørensen. **A110** (1968) 241
Collective gyromagnetic ratios of deformed nuclei, O. Prior, F. Boehm and S. G. Nilsson . . . **A110** (1968) 257
Nuclear deformations in the pairing-plus-quadrupole model (II). Discussion of validity of the model, M. Baranger and K. Kumar . . . **A110** (1968) 490
Nuclear deformations in the pairing-plus-quadrupole model (III). Static nuclear shapes in the rare-earth region, K. Kumar and M. Baranger . . . **A110** (1968) 529

1.D.3 *Other models*

Superfluidity nuclear model and odd-mass nuclei, M. O. Shaker and A. A. Kresnin . . . **A101** (1967) 333
Centre-of-mass supriosity and Hartree-Fock calculations, P. Federman, B. Giraud and D. Zaikin . . . **A102** (1967) 81
Rotational model representation of low-lying excited states in ^{23}Na, F. El-Batanoni and A. A. Kresnin . . . **A102** (1967) 473
Blocking effects in the asymmetric rotor model, M. G. Davidson . . . **A103** (1967) 427
Unified-model calculations in intermediate coupling with $2d_{\frac{3}{2}}$, $1g_{\frac{7}{2}}$ and $2f_{\frac{7}{2}}$ single-particle orbits, K. Heyde and P. J. Brussaard . . . **A104** (1967) 81
Stability of nuclei agains pear-shaped deformations, H. J. Krappe and H. G. Wahsweiler . . . **A104** (1967) 633
Gamma-vibrational states of deformed even nuclei populated in the (d, p) reaction, J. Kern, O. Mikoshiba, R. K. Sheline, T. Udagawa and S. Yoshida . . . **A104** (1967) 642
Deformed binding fields (II). Deformed wave functions in ^{6}Li arising from the tensor force, N. Freed and P. Goldhammer **A104** (1967) 683
Effects of the spin-quadrupole force on the rate of β-decay to collective states of even deformed nuclei, A. A. Kuliev and N. I. Pyatov . . . **A106** (1968) 689

Even-parity states of ^{16}O in pairing-plus-quadrupole model, L. Münchow and H. U. Jäger A107 (1968) 671
Studies of odd-mass Co isotopes in the unified model, L. Satpathy and S. C. Gujrathi A110 (1968) 400

1.D.4 *Relationship between different models*

Unified perspective of vibrational and rotational models of the nucleus, M. Sakai A104 (1967) 301
Modelistic and realistic interactions in the p, sd and pf nuclear shells, E. Ley-Koo, M. de Llano and J. Quintanilla A107 (1968) 35
Nuclear deformations in the pairing-plus-quadrupole model (II). Discussion of validity of the model, M. Baranger and K. Kumar A110 (1968) 490

1.E *Properties of nuclei*

1.E.1 *Energy levels*

Level positions of some Cu, Zn, Ga and Ge isotopes, G. Brown, J. G. B. Haigh, F. R. Hudson and A. E. MacGregor A101 (1967) 163
Excited states in ^{10}B from the reaction $^{8}Li(\alpha, \alpha)^{8}Li$, V. Meyer, R. E. Pixley and P. Truöl A101 (1967) 321
Excited levels of ^{29}Si investigated by inelastic scattering of 185 MeV protons, O. Sundberg, A. Johansson, G. Tibell, S. Dahlgren, D. Hasselgren, B. Höistad, A. Ingemarsson P.-U. Renberg A101 (1967) 481
The scattering of high-energy electrons by ^{27}Al, R. M. Lombard and G. R. Bishop A101 (1967) 601
Scattering of high-energy electrons on ^{27}Al, ^{31}P and ^{32}S and the core-excitation model, R. M. Lombard and G. R. Bishop . A101 (1967) 625
Gamma-ray transitions in ^{108}Pd following the decay of ^{108m}Ag, I. K. Temperley and A. A. Temperley A101 (1967) 641
The nuclear level structure of ^{75}As from a study of the $^{75}As(n, \gamma)^{76}As$ reaction, T. A. Siddiqi, N. Fiebiger and K. Stelzer A101 (1967) 673
Excited states of ^{81}Br, K. R. Evans and F. Ajzenberg-Selove . A102 (1967) 237
Excited states of the ^{155}Gd nucleus, J. Kormicki, H. Niewodniczański, Z. Stachura, K. Zuber and A. Budziak A102 (1967) 253
Niveaux de ^{32}S observés dans les réactions $^{31}P(p, \alpha_0)^{28}Si$ et $^{28}Si(\alpha, \gamma)^{32}S$, J. Vernotte, M. Langevin et F. Takeutchi . . A102 (1967) 449
Untersuchung von ^{179}Hg in der (n, γ) Reaktion, P. Manfrass, A. Andreeff, R. Kästner, W. Bondarenko, N. Kramer und P. Prokofjew A102 (1967) 563
Untersuchung von ^{175}Yb in der (n, γ) Reaktion, W. Bondarenko, N. Kramer, P. Prokofjew, P. Manfrass, A. Andreeff und R. Kästner A102 (1967) 577
The high-energy decay of ^{69}Zn, D. de Frenne, M. Dorikens, L. Dorikens-Vanpraet and J. Demuynck A103 (1967) 203
Energy-level structure of ^{131}Te from the $^{130}Te(d, p)^{131}Te$ reaction, A. Graue, E. Jastad, J. R. Lien, P. Torvund and W. H. Moore A103 (1967) 209
The energy levels of ^{53}Fe, J. Vervier A103 (1967) 222
Levels and transition rates in ^{199}Au, A. Bäcklin, B. Fogelberg and S. G. Malmskog A103 (1967) 337
Levels in ^{108}Pd from decay of 8.5d ^{108m}Ag, 24 min ^{108g}Ag and 30 sec ^{108g}Rh, P. V. Rao and R. W. Fink A103 (1967) 385

The radionucleide ^{101}Ag, D. R. Doty, P. Charoenkwan, J. W. Sunier and J. R. Richardson **A103** (1967) 404
The new radioisotope ^{98}Ag and some measurements on ^{100}Ag, D. R. Doty, J. R. Richardson and J. W. Sunier **A103** (1967) 417
Decay of 9.6d ^{125}Sn to levels of ^{125}Sb, J. F. Wild and W. B. Walters **A103** (1967) 601
The decay of ^{147}Nd, M. J. Canty and R. D. Connor **A104** (1967) 35
Ge(Li)-NaI(Tl) studies of the decay of ^{117}Te, G. Berzins, W. H. Kelly, G. Graeffe and W. B. Walters **A104** (1967) 241
Ge(Li)-NaI(Tl) angular correlation studies of gamma cascades in the decay of ^{119m}Te, G. Berzins and W. H. Kelly **A104** (1967) 263
Conversion electron measurements of transitions following the beta decay of ^{131m}Te, L. M. Beyer and W. H. Kelly **A104** (1967) 274
A study of the decay of 2.5 min ^{180}Re, P. F. A. Goudsmit, J. Konijn and F. W. N. de Boer **A104** (1967) 497
The 4.88 and 5.36 MeV states in ^{38}Ar, H. Röpke, K. P. Lieb and H. Brundiers. **A104** (1967) 529
Lifetime of the lowest $\frac{1}{2}^+$ states in ^{15}N and ^{15}O, P. G. Bizzeti, A. M. Bizzeti-Sona, S. Kalbitzer and B. Povh **A104** (1967) 577
Energy levels of $Z = 11$-21 nuclei (IV), P. M. Endt and C. van der Leun **A105** (1967) 1
Coincidence and directional correlation measurements on the decay of ^{156}Tb(5.3d), P. F. Kenealy, E. G. Funk and J. W. Mihelich **A105** (1967) 522
Nuclear energy states of ^{155}Eu, G. P. Agin, C. E. Mandeville and V. R. Potnis **A105** (1967) 698
Measurement of a spin 2 state in ^{102}Ag and the decay of ^{102}Ag B. Greenebaum, A. D. Jackson, Jr., and R. A. Naumann . **A106** (1968) 193
Single-particle wave functions of the ^{12}C nucleus from elastic and quasi-free electron scattering, C. Ciofi Degli Atti . . . **A106** (1968) 215
Levels in ^{134}Ba populated by the decay of ^{134}Cs, A. Abdul-Malek and R. A. Naumann **A106** (1968) 225
Spectroscopic information on the ^{127}I levels through neutron scattering, H. C. Sharma and N. Nath **A106** (1968) 241
Investigation of gamma-rays in the decay chain ^{149}Gd $\rightarrow$ ^{149}Eu $\rightarrow$ ^{149}Sm, I. Adam, K. S. Toth and R. A. Meyer **A106** (1968) 275
Decay of ^{139}Pr, D. de Frenne, J. Demuynck, K. Heyde, E. Jacobs, M. Dorikens and L. Dorikens-Vanpraet **A106** (1968) 350
The decay of ^{195}Ir and ^{195m}Ir, K. J. Hofstetter and P. J. Daly. . **A106** (1968) 382
A short-lived isomer ^{194m}Ir, A. Lundán and A. Siivola **A106** (1968) 417
Level structure of ^{235}U observed by a study of the alpha decay of ^{239}Pu, J. E. Cline **A106** (1968) 481
Decay of 13.5 h ^{109g}Pd to levels of ^{109}Ag, G. Graeffe and G. E. Gordon **A107** (1968) 67
Nuclear state of ^{143}Pr, D. G. Megli, V. R. Potnis and C. E. Mandeville **A107** (1968) 117
Levels of ^{51}V and ^{55}Mn via (n, n'γ) reactions, A. W. Barrows, R. C. Lamb, D. Velkley and M. T. McEllistrem **A107** (1968) 153
Nuclear energy states of ^{171}Tm, D. G. Megli, G. P. Agin, V. R. Potnis and C. E. Mandeville. **A107** (1968) 217
Decay of ^{23}Ne, R. Moreh, J. Balderman and Y. Gozez . . . **A107** (1968) 236
Decay of ^{144}Pr, to levels in ^{144}Nd, S. Raman. **A107** (1968) 402
Conversion electrons of ^{188}Re following neutron capture, A. A. Suarez, T. von Egidy, W. Kaiser, H. F. Mahlein and A. Jones **A107** (1968) 417

Capture radiative de neutrons thermiques dans ^{48}Ti, P. Carlos, J. Matuszek, A. Audias, B. P. Maier, H. Nifenecker, G. Perrin et R. Samama A107 (1968) 436
Decay schemes of 42 min ^{125}Sn and 10 min ^{125m}Sn, P. A. Baedeker and W. B. Walters A107 (1968) 449
Decay of ^{245}Pu, W. R. Daniels, D. C. Hoffman, F. O. Lawrence and C. J. Orth A107 (1968) 569
Search for a bound state of three neutrons, K. Debertin and E. Rössle A107 (1968) 693
The decay of ^{239}U, D. R. MacKenzie and R. D. Connor . . . A108 (1968) 81
The decay of ^{90}Nb, H. Pettersson, S. Antman and Y. Grunditz A108 (1968) 124
High-resolution studies in the decay of ^{133}Ba with semiconductor counters, H. E. Bosch, A. J. Haverfield, E. Szichman and S. M. Abecasis A108 (1968) 209
Energy level structure of ^{9}Be and ^{9}B, J. J. Kroepfl and C. P. Browne A108 (1968) 289
Etude des niveaux excités du ^{133}La. Existence possible de niveaux deformés, C. Gerschel A108 (1968) 337
Energy levels in ^{183}Re from the ^{181}Ta(^{4}He, 2nγ)^{183}Re reaction, J. O. Newton A108 (1968) 353
Energy levels in some doubly even barium isotopes, A. Abdul-Malek and R. A. Naumann A108 (1968) 401
The decay scheme of ^{165}Tm, W. Kurcewicz, Z. Moroz, Z. Preibisz and B. Schmidt Nielsen A108 (1968) 434
Energy levels of ^{57}Co, N. Bouchard and B. Čujec A108 (1968) 529
The decay of the $K = 3$ rotational band of ^{172}Yb based on the 1172.3 keV state, G. Kaye A108 (1968) 625
Energy levels of light nuclei, $A = 4$, W. E. Meyerhof and T. A. Tombrello A109 (1968) 1
Level structure of ^{117}In from the decay of ^{117}Cd, V. R. Pandharipande, K. G. Prasad, R. P. Sharma and B. V. Thosar . . . A109 (1968) 81
The decay of 9.7 min ^{135}Sn, G. Berzins and R. L. Auble . . . A109 (1968) 316
The decay of ^{97}Zr, A. Siivola and G. Graeffe A109 (1968) 369
The decay of ^{97}Nb, G. Graeffe and A. Siivola A109 (1968) 380
Energy levels of ^{99}Nb populated by the decay of ^{99}Mo, J. A. Cooper, J. M. Hollander and J. O. Rasmussen A109 (1968) 603
On superconductivity effects in nuclear level density, P. Decowski, W. Grochulski, A. Marcinkowski, K. Siwek and Z. Wilhelmi A110 (1968) 129
Energy levels of $^{210}_{84}$Po populated by the decay of $^{210}_{85}$At, S. G. Prussin and J. M. Hollander A110 (1968) 176
Decay of ^{145}Sm, D. de Frenne, K. Heyde, L. Dorikens-Vanpraet, M. Dorikens and J. Demuynck A110 (1968) 273
Negatons and conversion electrons from the decay of ^{88}Nb, S. Antman, H. Pettersson and Y. Grunditz A110 (1968) 289
Level structure in ^{9}Be and ^{6}Li from ^{7}Li(^{3}He, p)^{9}Be and ^{7}Li (^{3}He, α)^{6}Li, C. L. Cocke A110 (1968) 321
Experimental study of the structure of ^{90}Y, N. Mishra, C. F. Moore and C. E. Watson A110 (1968) 353
Collective vibrational states in even dysprosium nuclei, T. Grotdal, K. Nybø, T. Thorsteinsen and B. Elbek A110 (1968) 385
Even-parity states of ^{45}Sc, I. P. Johnstone A110 (1968) 429
Coincidence measurements on the decay of ^{168}Tm(87 d), P. F. Kenealy, E. G. Funk and J. W. Mihelich A110 (1968) 561
Decay of the 55 min and 12 min ^{129}Te isomers, B. Parsa, G. E. Gordon and W. B. Walters A110 (1968) 674

1.E.2 *Binding energies; masses*

Thermal-neutron capture gamma rays from natural magnesium and enriched ^{25}Mg, P. Spilling, H. Gruppelaar and A. M. F. op den Kamp **A102** (1967) 209
Thermal-neutron capture gamma rays from natural calcium, H. Gruppelaar and P. Spilling **A102** (1967) 226
RPC calculations for K-forbidden transitions in ^{182}W. Evidence for large inertial parameter connected with high-lying rotational bands, S. G. Malmskog and S. Wahlborn **A102** (1967) 273
Binding-energy calculations for finite nuclei, B. G. Nickel, E. L. Tomusiak and R. E. Peierls **A102** (1967) 655
Calculation of ^{16}O binding energy (II). H. S. Köhler and R. J. McCarthy **A106** (1968) 313
Binding energy of triton and n-d scattering lengths with separable potentials, V. F. Kharchenko, N. M. Petrov and S. A. Storozhenko **A106** (1968) 464
A new approximation for the pairing problem in nuclei, A. P. Zuker **A106** (1968) 641
Four-body correlations in nuclear matter, P. A. Lawson and S. Sampanthar **A106** (1968) 669

1.E.3 *Electric and magnetic moments*

Measurement of the g-factors of two levels of ^{131}I, P. N. Tandon and H. G. Devare **A102** (1967) 203
Projected Hartree-Fock calculations for light nuclei (III). Electromagnetic properties of ^{7}Li, M. Bouten, M. C. Bouten and P. van Leuven **A102** (1967) 322
Effects of the radial wave functions on the high-energy electron scattering problem, T. Stovall **A102** (1967) 554
Magnetic moments of nuclei with closed j-j shells plus or minus one nucleon, H. A. Mavromatis and L. Zamick **A104** (1967) 17
Unified-model calculations in intermediate coupling with $2d_{\frac{3}{2}}$, $1g_{\frac{7}{2}}$ and $2f_{\frac{7}{2}}$ single-particle orbits, K. Heyde and P. J. Brussaard **A104** (1967) 81
Quadrupole moment of the $K^{\pi} = 0^{+}$ excited state in odd ^{172}Lu, J. Jastrzębski, M. Moszyński, Z. Preibisz, K. Stryczniewicz, P. Paris and J. Treherne **A104** (1967) 459
Magnetic moment of the 660 keV state in ^{117}In, V. R. Pandharipande, K. G. Prasad and R. P. Sharma **A104** (1967) 525
The nuclear g-factors of the $\frac{5}{2}^{-}$ [523]$\frac{5}{2}$ states in ^{237}Np and ^{239}Np and the level structure of ^{237}Np, C. Günther and D. R. Parsignault **A104** (1967) 588
The g-factor of the 184 keV state of ^{67}Zn, R. M. Lieder, M. Fleck, K. Killig, M. Forker, K.-H. Speidel and E. Bodenstedt **A106** (1968) 389
Magnetic moment of the first excited state in ^{138}Cs by the Mössbauer effect, L. E. Campbell and G. J. Perlow **A109** (1968) 59
Precession measurements following Coulomb excitation with oxygen ions (V). Hf ions recoiling into liquid gallium, I. Ben-Zvi, P. Gilad, G. Goldring, P. Hillman, A. Schwarzschild and Z. Vager **A109** (1968) 201
Nuclear deformations in the pairing-plus-quadrupole model (III). Static nuclear shapes in the rare-earth region, K. Kumar and M. Baranger **A110** (1968) 529
Mössbauer effect studies of the 74.5 keV level of ^{161}Dy, B. Khurgin, S. Ofer and M. Rakavy **A110** (1968) 577

1.E.4 *Transition probabilities; cross sections*

Lifetime measurements of some rotational levels by a new recoil method (II), D. Ashery, N. Bahcall, G. Goldring, A. Sprinzak and Y. Wolfson **A101** (1967) 51

Nuclear resonance scattering of gamma rays in Cu, Sn and Bi, M. Giannini, P. Oliva, D. Prosperi and G. Toumbev **A101** (1967) 145

Nuclear resonance fluorescence and Rayleigh scattering from ^{203}Tl, J. C. Palathingal and M. L. Wiedenbeck **A101** (1967) 193

Influence of Coriolis coupling, pairing and octupole vibration-particle coupling on $\Delta K = -1$ E1 transitions in ^{177}Hf, F. M. Bernthal and J. O. Rasmussen **A101** (1967) 513

The Ω-forbidden decay of the 4.1 μs isomeric state in ^{170}Tm, A. Andreeff, R. Kästner, P. Manfrass, M. Bonitz, J. Borggreen and N. J. Sigurd Hansen **A102** (1967) 241

RPC calculations for K-forbidden transitions in ^{182}W. Evidence for large inertial parameter connected with high-lying rotational bands, S. G. Malmskog and S. Wahlborn **A102** (1967) 273

Isomerenverhältnis bei der Reaktion ^{203}Tl(n, 2n)^{202m,e}Tl und Halbwertszeit von ^{202m}Tl, P. Scheimbauer und P. Hille . . **A102** (1967) 534

The half-lives of natural ^{176}Lu and ^{180}Ta, K. Sakamoto . . . **A103** (1967) 134

Levels and transition rates in ^{199}Au, A. Bäcklin, B. Fogelberg and S. G. Malmskog **A103** (1967) 337

The $|\Delta K| = 1$, E1 transitions in odd-mass isotopes of Tb and Eu, S. G. Malmskog, A. Marelius and S. Wahlborn **A103** (1967) 481

Hindered E1 transitions in ^{159}Dy, ^{165}Tm, ^{172}Lu, ^{173}Lu and ^{180}W, T. W. Conlon, R. A. Naumann and A. L. McCarthy . . . **A104** (1967) 213

Coulomb excitation of ^{75}As, R. L. Robinson, F. K. McGowan, P. H. Stelson and W. T. Milner **A104** (1967) 401

Measurement of a spin 2 state in ^{102}Ag and the decay of ^{102}Ag, B. Greenebaum, A. D. Jackson, Jr. and R. A. Naumann . . **A106** (1968) 193

The g-factor of the 184 keV state of ^{67}Zn, R. M. Lieder, M. Fleck, K. Killig, M. Forker, K.-H. Speidel and E. Bodenstedt **A106** (1968) 389

Investigation of $J \to J$ M1 transitions in ^{38}Ar, G. A. P. Engelbertink, H. Lindeman and M. J. N. Jacobs **A107** (1968) 305

A study of the excited states of ^{31}P with the ^{30}Si(p, γ)^{31}P reaction, A. C. Wolff, M. A. Meyer and P. M. Endt **A107** (1968) 332

Width of the 3.13 MeV state in ^{31}P, W. L. Creten, R. J. Jacobs and H. M. Ferdinande **A107** (1968) 347

Decay of ^{109}Cd, L. V. East, H. M. Murphy, Jr. and E. R. Lewis **A107** (1968) 382

Collective vibrational states in even erbium nuclei, P. O. Tjøm and B. Elbek **A107** (1968) 385

Lifetimes of three levels in ^{22}Na measured by the Doppler shift attenuation in gases, A. E. Blaugrund, A. Fisher and A. Schwarzschild **A107** (1968) 411

Properties of the low-energy excited states in ^{125}I and ^{127}I, J. Kownacki, J. Ludziejewski and M. Moshiński **A107** (1968) 476

Lifetimes in ^{40}Ca from Doppler shift attenuation measurements using a Ge Li detector, J. R. MacDonald, D. F. H. Start, R. Anderson, A. G. Robertson and M. A. Grace **A108** (1968) 6

Lifetime measurements in ^{38}Ar, K. P. Lieb, H. Röpke, H. Grawe, H. J. Brundiers and O. Klepper **A108** (1968) 233

Corrections to electromagnetic transition rates due to ground-state correlations, J. da Providência and C. M. Shakin . . . **A108** (1968) 609

The decay of the $K = 3$ rotational band of ^{172}Yb based on the 1172.3 keV state, G. Kaye **A108** (1968) 625

Half-life of the first excited state of ^{122}Te, C. Hohenemser and R. Rosner **A109** (1968) 364
Level widths in ^{31}P, J. H. Hough, Z. B. du Toit and W. L. Mouton **A109** (1968) 393
Ein Ω-verbotener Übergang im ^{172}Tm, U. Hagemann, W. Meiling, A. Andreeff, R. Kästner, P. Manfrass und F. Stary . . **A109** (1968) 407
Perturbation of the statistical properties of nuclear states and transitions by interactions that are odd under time reversal, N. Rosenzweig, J. E. Monahan and M. L. Mehta **A109** (1968) 437
Inelastic deuteron scattering from ^{148}Sm, ^{150}Sm, ^{152}Sm and ^{154}Sm, E. Veje, B. Elbek, B. Herskind and M. C. Olesen . . **A109** (1968) 489
Lifetime of the 3.163 MeV level of ^{36}Cl, R. E. Azuma, N. Anyas-Weiss and A. M. Charlesworth **A109** (1968) 577
Search for short-lived isomer of ^{204}Tl, D. L. Horrocks . . . **A110** (1968) 238
Inelastic electron scattering from ^{4}He, R. F. Frosch, R. E. Rand, H. Crannell, J. S. McCarthy, L. R. Suelzle and M. R. Yearian **A110** (1968) 657

1.E.5 *Nuclear radii; matter distributions*

Elastic scattering of 225 MeV electrons on the ^{120}La nucleus, N. G. Shevchenko, N. G. Afanasyev, G. A. Savitsky, V. M. Khavastunov, I. S. Gulkarov, A. S. Omelayenko and V. D. Kovalyov **A101** (1967) 187
Elastic electron scattering experiments using an improved phase-shift method on Be and C at 53 MeV and their analysis, H. A. Bentz, R. Engfer and W. Bühring **A101** (1967) 527
Elastic electron scattering from ^{12}C, H. Crannell, L. R. Suelzle, F. J. Uhrhane and M. R. Yearian **A103** (1967) 677
The electromagnetic radii and Coulomb energy of ^{3}He, D. Kiang and S. H. Ng **A104** (1967) 538
Variations isotopiques des dimensions nucléaires déduites d'une paramétrisation en déphasages de la diffusion élastique de particules α de 44 MeV, J. C. Faivre, H. Krivine et A. M. Papiau **A108** (1968) 508

1.E.6 *Nuclear moments of inertia*

Nuclear deformations in the pairing-plus-quadrupole model (III). Static nuclear shapes in the rare-earth region, K. Kumar and M. Baranger **A110** (1968) 529

1.E.7 *Isobaric spin effects*

Second-forbidden contributions to allowed isospin hindered $J \to J$ transitions, R. Coussement and L. van Neste **A102** (1967) 363
The (0^+)-(0^+) beta transition in ^{154}Eu, L. van Neste, R. Coussement and J. P. Deutsch **A102** (1967) 369
On the theory of isobaric analogue resonances, R. Lipperheide **A105** (1967) 545
Isospin dependence of the nuclear optical potential, H. J. Erramuspe **A105** (1967) 569
The ^{89}Y(p, n)^{89}Zr cross section near the first two analogue resonances, C. H. Johnson, R. L. Kernell and S. Ramavataram **A107** (1968) 21
A (p, γ_0) study of the decay of isospin analogue resonances from 13-16 MeV in ^{89}Y, S. M. Shafroth and G. J. F. Legge **A107** (1968) 181
Investigation of $J \to J$ M1 transitions in ^{38}Ar, G. A. P. Engelbertink, H. Lindeman and M. J. N. Jacobs **A107** (1968) 305

Isospin selection rule in the ^{28}Si (d, α)^{26}Al reaction, P. G. Bizzeti and A. M. Bizzeti-Sona **A108** (1968) 274
A study of the low-lying isobaric analogue states of ^{89}Sr by means of the ^{88}Sr(p, p) and (p, p′) reactions, E. R. Cosman, J. M. Joyce and S. M. Shafroth **A108** (1968) 519
Isobar-Analog-Resonanzen in den Reaktionen ^{55}Mn(p, γ)^{56}Fe und ^{55}Mn(p, n)^{55}Fe, G. Otto, R. Mehnert und G. Tomaselli **A109** (1968) 118
Isobaric analogue resonances in (p, n) reactions on ^{78}Se, ^{80}Se, ^{82}Se and ^{87}Rb, J. Zioni, A. A. Jaffe, Ch. Drory and M. Harchol **A109** (1968) 401
Isospin and nuclear level density, I. Kanestrøm **A109** (1968) 625
Scattering of protons near thresholds of (p, n) reactions to analogue states, E. Friedman, A. Ginzburg, A. A. Jaffe and A. Marinov **A110** (1968) 300

1.E.8 *Other properties*

The electric charge form factor of ^{6}Li, S. S. M. Wong and D. L. Lin **A101** (1967) 663
Decay of ^{47}Ca, S. T. Hsue, M. U. Kim, L. M. Langer, E. H. Spejewski and J. B. Willett **A101** (1967) 688
β-γ(CP) correlation studies of ^{72}Ga and spin assignments in ^{72}Ge, K. G. Tirsell and S. D. Bloom **A103** (1967) 461
Lifetime predictions for super-heavy elements, T. E. Pierce and M. Blann **A106** (1968) 14
Beta-gamma circular polarization correlation in the decay of ^{48}V, B. van Nooijen, A. Meulenberg, Jr., A. V. Ramayya, J. H. Hamilton and J. J. Pinajian. **A106** (1968) 129
Note on the energy dependence of the beta-gamma directional correlation in the decay of ^{154}Eu, E. F. Zganjar, J. H. Hamilton and A. V. Ramayya **A106** (1968) 449
Determination of the parity of the 305 keV state of ^{48}V by linear polarization correlation measurements, P. Weigt, P. Herzog, H. Hubel and E. Bodenstedt **A106** (1968) 570
Circular polarization of neutron-capture gamma rays from ^{66}Zn, ^{68}Zn and ^{57}Fe, R. Schaub and W. Schuler **A107** (1968) 14
The parity of excited $I = 0$ states in ^{144}Nd and ^{178}Hf, H. Hübel, W. Kesternich, P. Weigt and E. Bodenstedt **A107** (1968) 106
Matrix element cancellation in the beta decay of ^{141}Ce and ^{199}Au, H. Beekhuis and R. J. van Duinen **A108** (1968) 382
The beta decay of ^{134}Cs, S. T. Hsue, M. U. Kim, L. M. Langer and E. H. Spejewski **A109** (1968) 423
Experiments on parity admixture in nuclear states, F. Boehm and E. Kankeleit **A109** (1968) 457
On superconductivity effects in nuclear level density, P. Decowski, W. Grochulski, A. Marcinkowski, K. Siwek and Z. Wilhelmi **A110** (1968) 129

2. Nuclear reactions

2.A *General properties*

2.A.1 *Cross-sections, energy relations*

Level positions of some Cu, Zn, Ga and Ge isotopes, G. Brown, J. G. B. Haigh, F. R. Hudson and A. E. MacGregor **A101** (1967) 163
Elastic scattering of ^{11}B on ^{11}B, G. Günther, K. Bethge and K. R. Schubert **A101** (1967) 288

Interactions of ^{3}He particles with B, N, Na and Be, R. L. Hahn and E. Ricci **A101** (1967) 353
Isobaric analogue states of ^{47}Ca, C. Gaarde, K. Kemp and P. Wilhjelm **A102** (1967) 1
Excitation functions for (^{3}He,γ) and (^{4}He,γ) reactions, R. V. Carlson and P. J. Daly **A102** (1967) 161
Isomerenverhältnis bei der Reaktion ^{203}Tl(n, 2n)^{202m,g}Tl und Halbwertszeit von ^{202m}Tl, P. Scheimbauer und P. Hille . . . **A102** (1967) 534
The $2I+1$ rule in the ^{25}Mg(d, α)^{23}Na reaction at low energies, W. N. Wang, E. K. Lin, R. Chiba, T. J. Lee, Y. C. Yang, C. C. Hsu and T. Chiao **A102** (1967) 537
Analyse des paramètres de résonances du cobalt et du manganèse, induites par des neutrons d'énergie inférieure à 120 keV, J. Morgenstern, S. De Barros, A. Bloch, P. L. Chevillon, V. D. Huynh, H. E. Jackson, J. Julien, C. Lopata et C. Samour **A102** (1967) 602
Two-particle-two-hole configurations in the dipole resonances of ^{90}Zr, E. Obst, F. Rauch and H. G. Wahsweiler **A103** (1967) 17
Four-particle disintegration of nitrogen by fast neutrons, J. Mösner, G. Schmidt and J. Schintlmeister **A103** (1967) 238
On the production of the superheavy nucleus ^{310}126, C. Y. Wong **A103** (1967) 625
Isospin conservation in the ^{46}Ca(d, α)^{30}K reaction, J. W. Hemsky, E. Bleuler and D. J. Tendam **A105** (1967) 665
Total reaction cross section and elastic scattering of 24.7 MeV alpha particles in the region of $A = 60$ nuclei, A. Budzanowski, K. Grotowski, J. Kuźmiński, H. Niewodniczański, A. S Strzałkowski, S. Sykutowski, J. Szmider and R. Wolski . . **A106** (1968) 21
Inelastic electron scattering cross sections using a finite nuclear well, F. D. Holder and J. M. Eisenberg **A106** (1968) 261
Excitation functions for (p, n) and (p, 2n) interactions in Sc, Cr, Mo, Cd and W between 8 and 14 MeV, R. G. Thomas, Jr. and W. Bartolini **A106** (1968) 323
Collective states in the odd nucleus ^{170}Tm from inelastic deuteron scattering, K. Fransson, H. Ryde, B. Herskind, G. D. Symons and A. Tveter **A106** (1968) 369
Lack of evidence for shell effects in the (n, 2n) cross sections, P. Hille **A107** (1968) 49
(γ, xn) reactions in ^{127}I, G. G. Jonsson and B. Forkman . . . **A107** (1968) 52
Excitation functions for deuteron-induced reactions, K. Otozai, S. Kuze, H. Okamura, A. Mito, T. Nishi and I. Fujiwara **A107** (1968) 427
Reaction mechanism of the ^{35}Cl(d, 2p)^{35}S ground state reaction at $E_d = 14.5$ MeV, P. F. Brown, J. X. Saladin, A. A. Rollefson, J. A. Burke, P. A. Crowley and J. R. Kerns . . **A107** (1968) 529
Reaction mechanism of the ^{35}Cl(d, 2α)^{29}Si ground state reaction between $E_d = 9.0$ and 12.0 MeV, A. A. Rollefson, J. X. Saladin, J. A. Burke, P. A. Crowley and J. R. Kerns . . . **A107** (1968) 545
The ^{10}B+d $\rightarrow \alpha+\alpha+\alpha$ reaction, P. A. Assimakopoulos and N. H. Gangas **A108** (1968) 497
Energy levels of ^{61}Co, N. Bouchard and B. Čujec **A108** (1968) 529
The $2I+1$ rule and the reaction mechanism of the ^{19}F(d, α)^{17}O reaction, Y. Takeuchi, Y. Hiratate, K. Miura, T. Tōhei and S. Morita **A109** (1968) 105
Deuteron break-up by 42 MeV alpha particles, R. E. Warner and R. W. Bercaw **A109** (1968) 205

The photoneutron cross section of ^{141}Pr, P. H. Cannington, R. J. J. Stewart, B. M. Spicer and M. G. Huber **A109** (1968) 385
Excited states in ^{111}Cd, J. McDonald and D. Porter **A109** (1968) 529
Measurement of the production cross section of ^{13}C from natural carbon for 385 MeV protons, P. T. Andrews, P. G. Butler, A. Christy, A. N. James, P. Kirkby, B. G. Lowe and B. W. Renwick **A109** (1968) 689
Messung von (n, 2n) Wirkungsquerschnitten und Untersuchung von Spinverteilungen an beiden Indiumisotopen, H. Rötzer **A109** (1968) 694
Energy spectra of alpha particles from the ^{122}Te(n, α)^{119}Sn, ^{159}Tb(n, α)^{156}Eu and ^{169}Tm(n, α)^{166}Ho reactions with 14.2 MeV neutrons, M. Jaskóła, W. Osakiewicz, J. Turkiewicz and Z. Wilhelmi **A110** (1968) 11
Statistical analysis of the reaction ^{51}V(p, p)^{51}V, C. M. Lamba, N. Sarma, N. S. Thampi, D. K. Sood and V. K. Deshpande . **A110** (1968) 111
^{6}Li induced reactions on ^{12}C at $E'_{lab} = 20$ MeV, K. Meier-Ewert, K. Bethge and K.-O. Pfeiffer **A110** (1968) 142
Neutron-induced (n, α) reactions on ^{103}Rh and indium at $E_n =$ 14 MeV, Đ. Veselić and J. Tudorić-Ghemo **A110** (1968) 225
Scattering of protons near thresholds of (p, n) reactions to analogue states, E. Friedman, A. Ginzburg, A. A. Jaffe and A. Marinov **A110** (1968) 300
Elastic scattering of several hydrogen and helium isotopes from tritium, M. Ivanovich, P. G. Young and G. G. Ohlsen . . . **A110** (1968) 441
(γ, 2n), (γ, xn) and (γ, α2n) reactions on ^{63}Cu and the decay of ^{56}Co, J. C. Ritter, R. E. Larson and J. I. Hoover **A110** (1968) 463

2.A.2 *General theory*

Time-dependent scattering formalism, J. P. Jeukenne **A101** (1967) 229
Evidence for exchange effects in inelastic scattering processes from angular correlation data, S. Edwards and G. E. Assousa **A107** (1968) 170

2.B *Angular distributions, correlations; polarization*

63 MeV deuteron scattering on C, Al and H. E. G. Auld, D. G. Crabb, J. G. McEwen, L. Bird, C. Whitehead and E. Wood. **A101** (1967) 65
The deuteron-nucleus effective interaction and DWBA calculations for the ^{90}Zr(d, p)^{91}Zr reaction, J. S. Forster, L. L. Green, N. W. Henderson, J. L. Hutton, G. D. Jones, J. F. Sharpey-Schafer, A. G. Craig and G. A. Stephens **A101** (1967) 113
Elastic and inelastic proton scattering from ^{46}Ti and ^{48}Ti, H. J. Erramuspe **A101** (1967) 138
Polarization and phase shifts in ^{12}C(p, p)^{12}C and ^{16}O(p, p)^{16}O from 1.5 to 3 MeV, W. Trächslin and L. Brown **A101** (1967) 273
The ^{91}Zr(d, p)^{92}Zr reaction at $E_d = 6.25$ MeV, J. K. Dickens and E. Eichler **A101** (1967) 408
The reactions ^{27}Al(n, p)^{27}Mg and ^{28}Si(n, p)^{28}Al at neutron energies around 8 MeV, K. Debertin, H. Günther and E. Rössle **A101** (1967) 473
Angular distributions of the recoil nuclei from the reactions ^{12}C(^{3}He, α)^{11}C and ^{12}C(^{3}He, d)^{13}N, R. L. Hahn **A101** (1967) 545
Polarization and asymmetry in the elastic and inelastic scattering of 50 MeV protons by ^{24}Mg, ^{64}Zn and ^{66}Zn, V. E. Lewis, E. J. Burge, A. A. Rush, D. A. Smith and N. K. Ganguly. . **A101** (1967) 589

Excited states of the ^{153}Gd nucleus, J. Kormicki, H. Niewodniczański, Z. Stachura, K. Zuber and A. Budziak **A102** (1967) 253
Angular correlation studies of excited states in ^{11}C and ^{14}N, R. S. Blake, E. B. Paul, C. H. Sinex and S. T. Emerson **A102** (1967) 305
Spectroscopic study of ^{47,49,51}V with the (^{3}He, d) reaction at 10 MeV, C. St.-Pierre, P. N. Maheshwari, D. Doutriaux and L. Lamarche **A102** (1967) 433
Even-parity states of ^{41}Ca by the ^{39}K(^{3}He, p)^{41}Ca reaction, T. A. Belote, F. T. Dao, W. E. Dorenbusch, J. Kuperus, J. Rapaport and S. M. Smith **A102** (1967) 462
Mesure des polarisations vectorielle et tensorielles des deutons de 21.7 MeV diffusés élastiquement par des protons, J. Arvieux, R. Beurtey, J. Goudergues, B. Mayer, A. Papineau et J. Thirion. . . **A102** (1967) 503
Analyse en déphasages des sections efficaces et polarisations dans la diffusion élastique proton-deuton, J. Arvieux **A102** (1967) 513
A description of elastic scattering and polarization of spin-half particles by the complex angular momentum method, M. B. Spencer **A102** (1967) 545
The inelastic scattering of 17.8 MeV protons from ^{58}Ni, ^{60}Ni and ^{120}Sn and the determination of spin and parity assignments for ^{58}Ni from α-particle scattering, O. N. Jarvis, B. G. Harvey, D. L. Hendrie and J. Mahoney **A102** (1967) 625
Stripping transitions in ^{46}Ti(^{3}He, d)^{47}V, W. E. Dorenbusch, J. Rapaport and T. A. Belote **A102** (1967) 681
Optical-model parameters and the analysis of (d, p) stripping experiments on ^{138}Ba, ^{140}Ce and ^{142,144,146}Nd, C. A. Wiedner, A. Heusler, J. Solf and J. P. Wurm **A103** (1967) 433
Gamma rays from the reaction ^{55}Mn(p, nγ)^{55}Fe, K. V. K. Iyengar, B. Lal and S. K. Gupta **A103** (1967) 592
^{58}Ni(p, p′γ)^{58}Ni angular correlation measurements, R. N. Horoshko, P. F. Hinrichsen, L. W. Swenson and D. M. van Patter **A104** (1967) 113
The ^{126}Te(d, p)^{127}Te reaction at 7.5 MeV bombarding energy, W. H. Moore, G. K. Schlegel, S. O'Dell, A. Graue and J. R. Lien **A104** (1967) 327
The (^{3}He, d) reaction on ^{116}Sn, ^{118}Sn and ^{120}Sn, T. Ishimatsu, K. Yagi, H. Ohmura, Y. Nakajima, T. Nakagawa and H. Orihara **A104** (1967) 481
The level structure of ^{51}V, ^{53}Mn and ^{55}Co by (^{3}He, d) reactions, B. J. O'Brien, W. E. Dorenbusch, T. A. Belote and J. Rapaport **A104** (1967) 609
Angular distributions of alpha particles from the reaction ^{18}O(n, α)^{15}C at E_n = 14.1 MeV, Y.-C. Hsu, C.-Y. Huang and C.-C. Chang . . . **A104** (1967) 677
The elastic and inelastic scattering of 50 MeV protons by ^{64}Zn, ^{66}Zn, ^{68}Zn and ^{70}Zn, M. Calderbank, E. J. Burge, V. E. Lewis, D. A. Smith and N. K. Ganguly **A105** (1967) 601
Three-body break-up in the reaction ^{7}Li(d, nγx, H. Jeremie, Ph. Martin and A. Calamand **A105** (1967) 689
Inelastic scattering of 26 MeV deuterons, H. R. E. Tjin A Djie, K. Mulder, F. Udo, A. Groeneveld, L. A. Ch. Koerts, A. D. Hill and P. E. Hodgson **A106** (1968) 85
Study of isobaric analogue resonances in elastic scattering of polarized protons from ^{142}Nd, G. Clausnitzer, R. Fleischmann, G. Graw, D. Proetel and J. P. Wurm **A106** (1968) 99
Neutron-proton correlations in the reaction ^{13}C(d, np)^{13}C, W. Bohne, D. Hilscher, H. Homeyer, H. Morgenstern and J. A. Scheer **A106** (1968) 442
A study of the nuclear structure of ^{60}Ni by the ^{59}Co(^{3}He, d)^{60}Ni and ^{60}Ni(p, p)^{60}Ni reactions, R. W. Barnard and G. D. Jones **A106** (1968) 497
Level structure of ^{49}V deduced from ^{46}Cr(t, α) and ^{46}Ti(^{3}He, d) reactions, D. Bachner, R. Santo, H. H. Duhm, R. Bock and S. Hinds . **A106** (1968) 577
A study of positive-parity states in ^{15}O, R. D. Gill, J. S. Lopes, B. C. Robertson, R. A. I. Bell and H. J. Rose **A106** (1968) 678

Evidence for exchange effects in inelastic scattering processes from angular correlation data, S. Edwards and G. E. Assousa **A107** (1968) 170
Angular correlation studies of excited states in ^{23}Mg, R. S. Blake, E. B. Paul and C. H. Sinex **A107** (1968) 253
Angular correlation studies in ^{46}Ti, C. W. Lewis, J. N. Mo, C. F. Monahan, M. F. Thomas and P. J. Twin **A107** (1968) 273
Étude des niveaux du ^{8}Be obtenus par réaction ^{10}B(d, αx)x de 0.6 à 2 MeV, J. P. Longequeue, J. F. Cavaignac, A. Giorni et R. Bouchez **A107** (1968) 467
The ^{62}Ni(^{3}He, d)^{63}Cu reaction at 11.0 MeV, D. L. Smith, H. Y. Chen and H. A. Enge **A107** (1968) 639
Polarization of neutrons from the ^{2}H(d, n)^{3}He reaction below 400 keV, A. F. Behof, T. H. May and W. I. McGarry **A108** (1968) 250
New parameters for scattering of 18.6 MeV polarized protons, P. Kossanyi-Demay and R. de Swiniarski **A108** (1968) 577
Electromagnetic properties of ^{39}K bound states, J. S. Lopes, B. C. Robertson, R. D. Gill, R. A. I. Bell and H. J. Rose **A109** (1968) 241
A study of ^{61}Ni by the ^{59}Co(^{3}He, p)^{61}Ni reaction, E. R. Cosman, D. N. Schramm and H. A. Enge **A109** (1968) 305
A study of the excited states of ^{11}C up to 8.43 MeV and of the 5.03 and 6.81 MeV levels of ^{11}B by a particle-gamma correlation technique, L. G. Earwaker and J. M. Montague **A109** (1968) 507
Level structure of ^{48}V, W. E. Dorenbusch, T. A. Belote and J. Rapaport **A109** (1968) 649
Level structure of ^{52}Mn, J. Rapaport, W. E. Dorenbusch and T. A. Belote **A109** (1968) 657
Excitation of ^{54}Co by two-particle transfer reactions, T. A. Belote, W. E. Dorenbusch and J. Rapaport **A109** (1968) 666
Level structure of ^{46}Ti, L. Broman and D. J. Pullen **A110** (1968) 161
The polarization-asymmetry difference in the scattering of medium-energy nucleons, C. T. Tindle **A110** (1968) 193
Proton polarization in Coulomb stripping, G. F. Drukarev and V. T. Ippolitov **A110** (1968) 218
Neutron-induced (n, α) reactions on ^{103}Rh and indium at $E_n = 14$ MeV, Đ. Veselić and J. Tudorić-Ghemo **A110** (1968) 225
^{16}O(n, α)^{13}C reaction at 14.1 MeV, D. R. Maxon and R. D. Murphy. **A110** (1968) 555
^{14}N(n, α)^{11}B reaction at 14.1 MeV, D. R. Maxon, R. D. Murphy and M. R. Zatzick **A110** (1968) 609

2.C *Resonance reactions; S-matrix theory*

An analysis of the deuteron break-up process induced by alpha particles, H. Nakamura and K. Nagatani. **A101** (1967) 557
Isobaric analogue states of ^{42}Ca, C. Gaarde, K. Kemp and P. Wilhjelm **A102** (1967) 1
Investigation of ^{41}K by proton-induced reactions on ^{40}Ar, V. W. Slivinsky and R. G. Winter **A102** (1967) 295
Fluctuations in the ^{12}C(^{16}O, α)^{24}Mg reaction, N. Drysdale, W. R. Phillips and A. J. P. L. Policarpo **A102** (1967) 337
^{27}Al(p, γ)^{28}Si resonance widths with study of temperature and contaminant effects, J. M. Dohowe, J. A. Ferry, W. G. Mourad and R. G. Herb **A102** (1967) 383
Precise measurement of relative energy positions and widths of some (p, γ) resonances in aluminium and sodium, W. G. Mourad, K. E. Nielsen and M. Petrilak, Jr **A102** (1967) 406
A description of elastic scattering and polarization of spin-half particles by the complex angular momentum method, M. B. Spencer **A102** (1967) 545

Analyse des paramètres de résonances du cobalt et du manganèse, induites par des neutrons d'énergie inférieure à 120 keV, J. Morgenstern, S. de Barros, A. Bloch, P. L. Chevillon, V. D. Huynh, H. E. Jackson, J. Julien, C. Lopata et C. Samour **A102** (1967) 602
State dependence of shell-model reaction matrix elements, T. T. S. Kuo **A103** (1967) 71
Radiative alpha capture by ^{38}Ar and ^{38}Ar, C. W. Nahm and T. T. Thwaites **A103** (1967) 503
A study of neutron resonances of vanadium and manganese, G. Rohr and E. Friedland **A104** (1967) 1
Application of the reaction-matrix theory (II). Simple Brueckner-Hartree-Fock descriptions of the ground states of light nuclei, C. W. Wong. **A104** (1967) 417
Neutron radiative capture in Mo, H. Weigmann and H. Schmid. . . **A104** (1967) 513
On the factorization of the wave function and the Green function in the region of isolated poles of the *S*-function, H.-J. Unger **A104** (1967) 564
The ^{11}B(p, 2α)^{4}He reaction at the 163 keV resonance, Y. S. Chen, S. T. Emerson, W. R. Jackson, W. D. Simpson and G. C. Phillips **A106** (1968) 1
Lifetime and energy of the ground state of ^{8}Be, J. Benn, E. B. Dally, H. H. Müller, R. E. Pixley, H. H. Staub and H. Winkler **A106** (1968) 296
Study of ^{2}H + ^{3}H, ^{2}H + ^{3}He and ^{2}He + ^{3}He systems with the resonating-group method, D. R. Thompson and Y. C. Tang **A106** (1968) 591
The ^{89}Y(p, n)^{89}Zr cross section near the first two analogue resonances, C. H. Johnson, R. L. Kernell and S. Ramavataram **A107** (1968) 21
Quasi-elastic scattering to isobaric analogue states, W. E. Frahn . . **A107** (1968) 129
The giant dipole resonance excited by α-capture, L. Meyer-Schützmeister, Z. Vager, R. E. Segel and P. P. Singh **A108** (1968) 180
Radiative capture of ^{5}He by ^{7}Li from 3 to 6 MeV, S. C. Ling, A. M. Young and S. L. Blatt **A108** (1968) 221
A study of the low-lying isobaric analogue states of ^{89}Sr by means of the ^{89}Sr(p, p) and (p, p′) reactions, E. R. Cosman, J. M. Joyce and S. M. Shafroth **A108** (1968) 519
The neutron resonance parameters and average capture cross section of ^{165}Ho, M. Asghar, C. M. Chaffey and M. C. Moxon **A108** (1968) 535
Resonance in the (p, n) reaction on ^{12}C, E. M. Rimmer and P. S. Fisher **A108** (1968) 561
Resonances in the (n, p) reaction on ^{12}C, E. M. Rimmer and P. S. Fisher **A108** (1968) 567
Isobar-Analog-Resonanzen in den Reaktionen ^{55}Mn(p, γ)^{56}Fe und ^{55}Mn(p, n)^{55}Fe, G. Otto, R. Mehnert und G. Tomaselli **A109** (1968) 118
The ^{20}Ne(α, γ)^{24}Mg reaction from 3 to 6 MeV, G. J. Highland and T. T. Thwaites **A109** (1968) 163
On the use of resonant states in eigenfunction expansions of scattering and reaction amplitudes, T. Berggren **A109** (1968) 265
Direct and compound nuclear reaction mechanisms in ^{25}Mg(p, p)^{25}Mg, O. Häusser, A. Richter, W. von Witsch and W. J. Thompson . . **A109** (1968) 329
Étude de la réaction ^{3}H(^{3}He, γ)^{6}Li à $E_{^3\mathrm{He}} \leqq 5.5$ MeV, L. Kraus, M. Suffert et D. Magnac-Valette **A109** (1968) 593
High-resolution investigation of the reaction ^{35}Cl(p, α$_0$)^{32}S, B. Bošnjaković, J. Bouwmeester, J. A. Van Best and H. S. Pruys **A110** (1968) 17

2.D *Statistical model*

Radiative capture mechanism in heavy nuclei, R. V. Carlson and P. J. Daly **A102** (1967) 177
Excitation functions for (p, n) and (p, 2n) interactions in Sc, Cr, Mo, Cd and W between 8 and 14 MeV, R. G. Thomas, Jr. and W. Bartolini **A106** (1968) 323
The analysis of nuclear evaporation spectra: charged particle emission, D. C. Williams and T. D. Thomas **A107** (1968) 552

A fluctuation analysis of the reaction $^{31}P(p,\alpha)^{28}Si$, P. J. Dallimore and B. W. Allardyce **A108** (1968) 150
Statistical analysis of the reaction $^{51}V(p,p)^{51}V$, C. M. Lamba, N. Sarma, N. S. Thampi, D. K. Sood and V. K. Deshpande **A110** (1968) 111
Level density parameter in the mass region 24-48, P. N. Tiwari and E. Kondaiah. **A110** (1968) 317

2.E *Optical model*

Analyses of 49.6 MeV proton scattering from the ground and first excited states of ^{64}Zn and ^{114}Cd, V. R. W. Edwards **A101** (1967) 17
Elastic and inelastic scattering of 29 MeV ^{3}He by ^{24}Mg, R. J. Griffiths **A102** (1967) 329
Energy dependence of the elastic scattering and polarization of protons on ^{40}Ca, E. E. Gross, R. H. Bassel, L. N. Blumberg, B. J. Morton, A. van der Woude and A. Zucker **A102** (1967) 673
The complex symmetry term in the nucleon optical potential, P. E. Hodgson **A103** (1967) 127
Generalized optical model for elastic and quasi-elastic scattering of protons, Kh. Müller **A103** (1967) 513
Separable non-local two-nucleon potential for odd-parity spin triplet states, J. H. Naqvi **A103** (1967) 565
A modification of the Austern-Blair theory and the study of $(\alpha,\alpha'\gamma)$ correlation functions, F. J. W. Hahne **A104** (1967) 545
Isospin dependence of the nuclear optical potential, H. J. Erramuspe **A105** (1967) 569
Inelastic scattering of spin-$\frac{1}{2}$ particles in the Austern-Blair theory, F. J. W. Hahne **A106** (1968) 660
New parameters for scattering of 18.6 MeV polarized protons, P. Kossanyi-Demay and R. de Swiniarski **A108** (1968) 577
Analogue state (p, n) reactions at 94 MeV, N. Thurlow **A109** (1968) 471
On the energy dependence of the empirical optical potential, G. Passatore. **A110** (1968) 91

2.F *Direct interaction (other than stripping)*

A search for excited states of ^{8}He, R. J. Slobodrian, J. S. C. McKee, D. J. Clark, W. F. Tivol and T. A. Tombrello **A101** (1967) 109
Elastic scattering of protons at the threshold for the quasi-elastic (p, n) process, J. P. Bondorf, C. Ellegaard, J. Kantele, H. Lütken and P. Vedelsby **A101** (1967) 338
Scattering and pick-up reactions with deuterons on Be, B, C, N and O at 11.8 MeV, W. Fitz, R. Jahr and R. Santo **A101** (1967) 449
Single-particle states in non-local potentials and direct nuclear reactions, H. Schulz, J. Wiebecke and R. Reif **A101** (1967) 577
Recherche d'une structure intermédiaire dans les sections efficaces totales neutroniques, J. Cabé, M. Laurat, P. Yvon et G. Bardolle **A102** (1967) 92
La réaction de transfert avec des ions lourds, J.-L. Perrenoud et E. Sheldon. **A102** (1967) 105
Neutron single-particle states in ^{143}Nd and ^{145}Sm, P. R. Christensen, B. Herskind, R. R. Borchers and L. Westgaard **A102** (1967) 481
An experimental study of the nuclei ^{147}Sm and ^{149}Sm, E. Veje . . . **A103** (1967) 188
Réactions (p, 2p) à 156 MeV (III). ^{23}Na, ^{24}Mg, ^{28}Si, ^{64}Zn, ^{75}As et ^{90}Zr, M. Arditi, H. Doubre, M. Riou, D. Royer et C. Ruhla **A103** (1967) 319
The reaction $d+{}^{3}He \rightarrow {}^{3}He+(pp)$, E. M. Henley, F. C. Richards and D. U. L. Yu **A103** (1967) 361
The $^{6}Li(^{3}He,n)^{8}B$ reaction mechanism, P. van der Merwe, W. R. McMurray and I. J. van Heerden. **A103** (1967) 474
Réactions (p, 2p) coplanaires et non-coplanaires dans le ^{12}C, T. Yuasa et E. Hourany **A103** (1967) 577

Activation cross sections of Mo isotopes for 14.1 MeV neutrons, P. Cuzzocrea, E. Perillo and S. Notarrigo A103 (1967) 616
Antisymmetry in distorted-wave calculations of inelastic nucleon scattering, K. A. Amos A103 (1967) 657
Test of the DWBA in (^{3}He, α) reactions leading to configuration and analogue states, R. Stock, R. Bock, P. David, H. H. Duhm and T. Tamura A104 (1967) 136
Heavy-particle emission from the reactions ^{19}F+d and ^{19}F+^{3}He, D. Dehnhard, D. S. Gemmell and Z. Vager A104 (1967) 202
Transfer reactions in scattering of complex nuclei, S. Varma A106 (1968) 233
Neutron-neutron coincidence spectra from the ^{2}H(n, 2n)^{1}H reaction at 14.1 MeV, R. Honecker and H. Grässler A107 (1968) 81
On the quasi-elastic mechanism of the (α, 2α) reaction at low and intermediate energies, V. V. Balashov and D. V. Meboniya . . . A107 (1968) 369
Two-nucleon virtual levels in direct nuclear reactions, M. Vymazal A109 (1968) 236
A study of ^{61}Ni by the ^{59}Co(^{3}He, p)^{61}Ni reaction, E. R. Cosman, D. N. Schramm and H. A. Enge A109 (1968) 305
Level structure of ^{46}V, W. E. Dorenbusch, T. A. Belote and J. Rapaport A109 (1968) 649
Level structure of ^{52}Mn, J. Rapaport, W. E. Dorenbusch and T. A. Belote A109 (1968) 657
Excitation of ^{56}Co by two-particle transfer reactions, T. A. Belote, W. E. Dorenbusch and J. Rapaport A109 (1968) 666
The reactions ^{6}Li(^{3}He, ^{3}He$_0$)^{6}Li, ^{6}Li(d, d$_0$)^{6}Li, ^{7}Li(d, d$_0$)^{7}Li and ^{6}Li(^{3}He, d$_{0,1}$)^{7}Be, H. Lüdecke, Tan Wan-Tjin, H. Werner and J. Zimmerer A109 (1968) 676
Energy levels of ^{17}O from ^{13}C(α, α$_0$)^{13}C and ^{13}C(α, n)^{16}O, G. W. Kerr, J. M. Morris and J. R. Risser A110 (1968) 637

2.G *Stripping and pick-up*

The deuteron-nucleus effective interaction and DWBA calculations for the ^{90}Zr(d, p)^{91}Zr reaction, J. S. Forster, L. L. Green, N. W. Henderson, J. L. Hutton, G. D. Jones, J. F. Sharpey-Schafer, A. G. Craig and G. A. Stephens A101 (1967) 113
Study of the ^{18}O(p, t)^{16}O and ^{18}O(p, d)^{17}O reactions at $E_p = 18.2$ MeV, H. F. Lutz, J. J. Wesolowski, S. F. Eccles and L. F. Hansen. A101 (1967) 241
The ^{91}Zr(d, p)^{92}Zr reaction at $E_d = 6.25$ MeV, J. K. Dickens and E. Eichler A101 (1967) 408
Scattering and pick-up reactions with deuterons on Be, B, C, N and O at 11.8 MeV, W. Fitz, R. Jahr and R. Santo. A101 (1967) 449
Two-nucleon transfer reactions on oxygen and the nuclear coexistence model, F. Dönau, K. Hehl, C. Riedel, R. A. Broglia and P. Federman A101 (1967) 495
The reaction ^{39}K(d, n)^{40}Ca, R. Bass, C. Lehmann and U. Quast. . . A102 (1967) 190
Excited states of ^{81}Br, K. R. Evans and F. Ajzenberg-Selove A102 (1967) 237
Polarization effects in the (d, p) stripping reaction, W. I. van Rij . . A102 (1967) 286
Spectroscopic study of ^{47,49,51}V with the (^{3}He, d) reaction at 10 MeV, C. St.-Pierre, P. N. Maheshwari, D. Doutriaux et L. Lamarche . . A102 (1967) 433
Neutron single-particle states in ^{143}Nd and ^{145}Sm, P. R. Christensen, B. Hershind, R. R. Borchers and L. Westgaard A102 (1967) 481
Stripping transitions in ^{48}Ti(^{3}He, d)^{47}V, W. E. Dorenbusch, J. Rapaport and T. A. Belote A102 (1967) 681
The (t, p) reaction with the even isotopes of Ca, J. H. Bjerregaard, O. Hansen, O. Nathan, R. Chapman, S. Hinds and R. Middleton . A103 (1967) 33
An experimental study of the nuclei ^{147}Sm and ^{149}Sm, E. Veje A103 (1967) 188
Energy-level structure of ^{131}Te from the ^{130}Te(d, p)^{131}Te reaction, A. Graue, E. Jastad, J. R. Lien, P. Torvund and W. H. Moore . . A103 (1967) 209

Optical-model parameters and the analysis of (d, p) stripping experiments on ^{138}Ba, ^{140}Ce and ^{142,144,146}Nd, C. A. Wiedner, A. Heusler, J. Solf and J. P. Wurm A103 (1967) 433
The ^{63,65}Cu(^{3}He, d)^{64,66}Zn reactions, J. L. C. Ford, Jr., K. L. Warsh, R. L. Robinson and C. D. Moak A103 (1967) 525
The ^{96}Zr(p, p′) and ^{94}Zr(p, d) reaction at 19.4 MeV, M. M. Stautberg, R. R. Johnson, J. J. Kraushaar and B. W. Ridley A104 (1967) 67
The ^{128}Te(d, p)^{129}Te reaction at 7.5 MeV bombarding energy, W. H. Moore, G. K. Schlegel, S. O'Dell, A. Graue and J. R. Lien A104 (1967) 327
The (^{3}He, d) reaction on ^{116}Sn, ^{118}Sn and ^{120}Sn, T. Ishimatsu, K. Yagi, H. Ohmura, Y. Nakajima, T. Nakagawa and H. Orihara A104 (1967) 481
The level structure of ^{51}V, ^{53}Mn and ^{55}Co by (^{3}He, d) reactions, B. J. O'Brien, W. E. Dorenbusch, T. A. Belote and J. Rapaport A104 (1967) 609
A nuclear structure study of ^{23}Na by means of the ^{22}Ne(^{3}He, d)^{23}Na reaction, J. Dubois A104 (1967) 657
States in ^{12}C and ^{16}O investigated by the ^{11}B(d, n) and ^{15}N(d, n) reactions, H. Fuchs, K. Grabisch, P. Kraaz and G. Röschert A105 (1967) 590
Single nucleon pick-up from ^{12}C and ^{14}N with 52 MeV deuterons, F. Hinterberger, G. Mairle, U. Schmidt-Rohr, P. Turek and G. J. Wagner A106 (1968) 161
(p, d) reactions on light nuclei at 100 MeV, J. K. P. Lee, S. K. Mark, P. M. Portner and R. B. Moore A106 (1968) 357
(n, d) reactions on ^{14}N, ^{35}Cl, ^{39}K, ^{40}Ca and ^{75}As at 14.4 MeV, Đ. Miljanić, G. Paić, B. Antolković and P. Tomaš A106 (1968) 401
The spectrum of ^{56}Ca and the ^{48}Ca(t, p) reaction, R. A. Broglia, P. Federman, O. Hansen, K. Hehl and C. Riedel A106 (1968) 421
Excitation of isobaric analogue states in the ^{27}Al(d, n)^{28}Si reaction, B. Lawergren, G. C. Morrison and A. T. G. Ferguson A106 (1968) 455
Analysis of the ^{24}Mg(d, n)^{25}Al reaction from 1.38 to 2.8 MeV, O. Dietzsch, D. Wilmore and P. E. Hodgson A106 (1968) 527
Level structure of ^{49}V deduced from ^{46}Cr(t, α) and ^{48}Ti(^{3}He, d) reactions, D. Bachner, R. Santo, H. H. Duhm, R. Bock and S. Hinds A106 (1968) 577
The reaction ^{209}Bi(t, α)^{208}Pb, J. H. Bjerregaard, O. Hansen, O. Nathan, R. Chapman and S. Hinds A107 (1968) 241
Excitation functions for deuteron-induced reactions, K. Otozai, S. Kuze, H. Okamura, A. Mito, T. Nishi and I. Fujiwara A107 (1968) 427
Trapping states in stripping reactions, S. Edwards A107 (1968) 533
The ^{27}Al(^{3}He, α)^{26}Al reaction at 10 MeV bombarding energy, J. Nurzyński, K. H. Bray and B. A. Robson A107 (1968) 581
The ^{62}Ni(^{3}He, d)^{63}Cu reaction at 11.0 MeV, D. L. Smith, H. Y. Chen and H. A. Enge A107 (1968) 639
A study of the ^{28}Si(p, d)^{27}Si reaction, G. D. Jones, R. R. Johnson and R. J. Griffiths A107 (1968) 659
Spectroscopic factors from the reaction ^{30}Si(d, p)^{31}Si, B. H. Wildenthal and P. W. M. Glaudemans A108 (1968) 49
The ^{40}Ar(p, d)^{39}Ar and ^{36}Ar(p, d)^{35}Ar reactions at 27.5 MeV, R. R. Johnson and R. J. Griffiths A108 (1968) 113
States with $T = 1$ in ^{20}Ne, ^{24}Mg and ^{28}Si, B. T. Lawergren, A. T. G. Ferguson and G. C. Morrison A108 (1968) 325
The reaction ^{25}Mg(^{3}He, d)^{26}Al at 12 MeV, A. Weidinger, R. H. Siemssen, G. C. Morrison and B. Zeidman A108 (1968) 547
A study of the nuclear structure of ^{28}Si by the ^{27}Al(^{3}He, d)^{28}Si reaction, R. W. Barnard and G. D. Jones A108 (1968) 641
Neutron-gamma correlation studies of the ^{29}Si(d, n)^{29}P reaction at deuteron energies near 3 MeV, R. Felst, M. Cosack, T. Gudehus, R. H. Siemssen, J. Tepel and B. Zeitnitz A108 (1968) 666

A study of the ^{40}Ca(d, d)^{40}Ca, ^{40}Ca(d, p)^{41}Ca and ^{46}Ca(d, n)^{41}Sc reactions in the energy region from 5.0 to 6.5 MeV, H. G. Leighton, G. Roy, D. P. Gurd and T. B. Grandy **A109** (1968) 218
The neutron-neutron scattering length from reactions with tritium targets, E. Fuschini, C. Maroni, I. Massa, A. Uguzzoni, G. Vannini, E. Verondini and A. Vitale **A109** (1968) 465
The reactions ^{203,205}Tl(α, t)^{204,206}Pb, O. Nathan, G. Bruge, A. Bussière, P. Kossanyi, J. M. Loiseaux, P. Roussel, J. Testoni and L. Valentin **A109** (1968) 481
The reactions ^{6}Li(^{3}He, ^{2}He$_{0}$)^{6}Li, ^{6}Li(d, d$_{0}$)^{6}Li, ^{7}Li(d, d$_{0}$)^{7}Li and ^{6}Li(^{3}He, d$_{0,1}$)^{7}Be, H. Lüdecke, Tan Wan-Tjin, H. Werner and J. Zimmerer **A109** (1968) 676
The reactions ^{116,118}Sn(t, p)^{118,120}Sn, J. H. Bjerregaard, O. Hansen, O. Nathan, L. Vistisen, R. Chapman and S. Hinds **A110** (1968) 1
Study of states in ^{28}Al and ^{28}Al by the ^{24}Mg(d, n) and ^{25}Mg(d, n) reactions, H. Fuchs, K. Grabisch, P. Kraaz and G. Röschert . . . **A110** (1968) 65
The ^{32}S(n, d)^{31}P and ^{34}S(n, d)^{33}P reactions at 14 MeV, R. R. Wagner and R. A. Peck, Jr. **A110** (1968) 81
Level structure of ^{46}Ti, L. Broman and D. J. Pullen **A110** (1968) 161
The form factor of the stripping reaction in the Hartree-Fock approximation, K. Sugawara. **A110** (1968) 305
Some branching ratios in ^{28}Mg, T. Daniels, J. M. Calvert and A. Adams **A110** (1968) 339
Experimental study of the structure of ^{90}Y, N. Mishra, C. F. Moore and C. E. Watson **A110** (1968) 353
The (d, ^{3}He) reaction on the $N = 28$ nuclei at 34 MeV, E. Newman and J. C. Hiebert **A110** (1968) 366
A study of (α, n) reactions on ^{9}Be and ^{12}C at low energies, C. N. Davids **A110** (1968) 619
Energy levels of ^{17}O from ^{13}C(α, α$_{0}$)^{13}C and ^{13}C(α, n)^{16}O, G. W. Kerr, J. O. Morris and J. R. Risser **A110** (1968) 637

2.H *Coulomb excitation*

Coulomb excitation of ^{45}Sc, ^{75}As, ^{127}I and ^{133}Cs, N. Imanishi, F. Fukuzawa, M. Sakisaka and Y. Uemura **A101** (1967) 654
Inelastic scattering of alpha particles and deuterons on ^{185}Re and ^{187}Re, K. M. Bisgård and E. Veje **A103** (1967) 545
Excited states in ^{115}In, J. McDonald, D. Porter and D. T. Stewart . . **A104** (1967) 177
Collective states in ^{59}Co, R. Nordhagen, B. Elbek and B. Herskind . . **A104** (1967) 353
Coulomb excitation of ^{75}As, R. L. Robinson, F. K. McGowan, P. H. Stelson and W. T. Milner **A104** (1967) 401
Precession measurements following Coulomb excitation with oxygen ions (V). Hf ions recoiling into liquid gallium, I. Ben-Zvi, P. Gilad, G. Goldring, P. Hillman, A. Schwarzschild and Z. Vager **A109** (1968) 201

2.I *Photonuclear processes*

On the interpretation of photonuclear angular distributions, D. E. Frederick **A101** (1967) 250
Channel analysis of cross sections and angular distributions for fission induced by neutron and photons, R. Vandenbosch **A101** (1967) 460
Excitation functions for (^{3}He, γ) and (^{4}He, γ) reactions, R. V. Carlson and P. J. Daly **A102** (1967) 161
Radiative capture mechanism in heavy nuclei, R. V. Carlson and P. J. Daly **A102** (1967) 177
Two-particle-two-hole configurations in the dipole resonances of ^{90}Zr, E. Obst, F. Rauch and H. G. Wahsweiler **A103** (1967) 17

Photodisintegration of the ^{16}O nucleus, N. M. Kabachnik, V. L. Korotkih and H.-J. Unger **A103** (1967) 450
What needs explaining in the photodisintegration of ^{3}He?, G. Barton **A104** (1967) 289
(γ, xn) reactions in ^{127}I, G. G. Johnson and B. Forkman **A107** (1968) 52
The amplitude of nuclear photon scattering and its Thomson limit, R. Silbar, C. Werntz and H. Überall **A107** (1968) 655
Nuclear photon scattering, R. Silbar and H. Überall **A109** (1968) 146
The photoneutron cross section of ^{141}Pr, P. H. Cannington, R. J. J. Stewart, B. M. Spicer and M. G. Huber **A109** (1968) 385

2.J *Fission and spallation*

Channel analysis of cross sections and angular distributions for fission induced by neutrons and photons, R. Vandenbosch. **A101** (1967) 460
A study of the spontaneously fissioning isomer of ^{242}Am through the $^{241}Am(n, \gamma)$ reaction, G. N. Flerov, A. A. Pleve, S. M. Polikanov, S. P. Tretyakova, I. Boca, M. Sezon, I. Vilcov and N. Vilcov . . . **A102** (1967) 443
On statistical reactions in fissioning nuclei. Fission isomers populated in xny reactions, S. Jägare **A103** (1967) 241
Effective masses for nuclear fission, R. W. Hasse, R. Ebert and G. Süssmann **A106** (1968) 117
Energy of ^{242}Am and ^{242m}Am fission fragments, B. H. Erkkila and R. B. Leachman **A108** (1968) 689
On statistical reactions in fissioning nuclei (II). Fission isomers populated in (n, γ) reactions, S. Jägare **A109** (1968) 633

2.L *Scattering processes (except two-nucleon system and meson scattering)*

Nuclear energy levels of ^{56}Fe from studies of the $(p, p'\gamma)$ reaction, P. F. Hinrichsen, M. H. Shapiro and D. M. van Patter **A101** (1967) 81
Elastic and inelastic proton scattering from ^{46}Ti and ^{48}Ti, H. J. Erramuspe **A101** (1967) 138
Elastic scattering of 225 MeV electrons on the ^{139}La nucleus, N. G. Shevchenko, N. G. Afanasyev, G. A. Savitsky, V. M. Khavastunov, I. S. Gulkarov, A. S. Omelayenko and C. D. Kovalyov **A101** (1967) 187
Excited levels of ^{29}Si investigated by inelastic scattering of 185 MeV protons, O. Sundberg, A. Johansson, G. Tibell, S. Dahlgren, D. Hasselgren, B. Höistad, A. Ingemarsson and P.-U. Renberg . . . **A101** (1967) 481
Elastic electron scattering experiments using an improved phase-shift method on Be and C at 53 MeV and their analysis, H. A. Bentz, R. Engfer and W. Bühring **A101** (1967) 527
Polarization and asymmetry in the elastic and inelastic scattering of 50 MeV protons by ^{24}Mg, ^{64}Zn and ^{66}Zn, V. E. Lewis, E. J. Burge, A. A. Rush, D. A. Smith and N. K. Ganguly **A101** (1967) 589
The scattering of high-energy electrons by ^{27}Al, R. M. Lombard and G. R. Bishop **A101** (1967) 601
The scattering of high-energy electrons on ^{27}Al, ^{31}P and ^{32}S and the core-excitation model, R. M. Lombard and G. R. Bishop **A101** (1967) 625
Inelastic scattering of 46 MeV protons from ^{12}C, E. L. Petersen, I. Slaus, J. W. Verba, R. F. Carlson and J. R. Richardson **A102** (1967) 145
The inelastic scattering of 17.8 MeV protons from ^{58}Ni, ^{60}Ni and ^{120}Sn and the determination of spin and parity assignments for ^{58}Ni from α-particle scattering, O. N. Jarvis, B. G. Harvey, D. L. Hendrie and J. Mahoney **A102** (1967) 625
The $^{63, 65}Cu(^{3}He, d)^{65, 67}Zn$ reactions, J. L. C. Ford, Jr., K. L. Warsh, R. L. Robinson and C. D. Moak **A103** (1967) 525
Inelastic scattering of alpha particles and deuterons on ^{185}Re and ^{187}Re, K. M. Bisgård and E. Veje **A103** (1967) 545

Effective range analysis of low-energy α-α scattering, M. W. Kermode **A104** (1967) 49
The ^{92}Zr(p, p′) and ^{92}Zr(p, d) reaction at 19.4 MeV, M. M. Stautberg, R. R. Johnson, J. J. Kraushaar and B. W. Ridley **A104** (1967) 67
Search for $T = \frac{1}{2}$ states in ^{5}He by elastic scattering of protons on deuterium, D. Daronian, J. C. Faivre, D. Garreta, J. Goudergues, J. Jungerman, H. Krug, B. Mayer, A. Pages, A. Papineau and J. Testoni **A104** (1967) 111
^{58}Ni(p, p′γ)^{58}Ni angular correlation measurements, R. N. Horoshko, P. F. Hinrichsen, L. W. Swenson and D. M. van Patter **A104** (1967) 113
Inelastic 1 GeV proton scattering from carbon and oxygen, J. L. Friedes, H. Palevsky, R. J. Sutter, G. W. Bennett, G. J. Igo, W. D. Simpson and D. M. Corley **A104** (1967) 294
Elastic and inelastic scattering of 49.5 MeV protons by ^{24}Mg, A. A. Rush, E. J. Burge, V. E. Lewis, D. A. Smith and N. K. Ganguly . **A104** (1967) 340
The elastic and inelastic scattering of 50 MeV protons by ^{64}Zn, ^{66}Zn, ^{68}Zn and ^{70}Zn, M. Calderbank, E. J. Burge, V. E. Lewis, D. A. Smith and N. K. Ganguly **A105** (1967) 601
Coupled channel analysis of proton scattering from ^{19}F, W. J. Thompson, S. Edwards and T. Tamura **A105** (1967) 678
Total reaction cross section and elastic scattering of 24.7 MeV alpha particles in the region of $A = 60$ nuclei, A. Budzanowski, K. Grotowski, J. Kuźmiński, H. Niewodniczański, A. Strzałkowski, S. Sykutowski, J. Szmider and R. Wolski **A106** (1968) 21
Inelastic scattering of 26 MeV deuterons, H. R. E. Tjin A Djie, K. Mulder, F. Udo, A. Groeneveld, L. A. Ch. Koerts, A. D. Hill and P. E. Hodgson **A106** (1968) 85
Study of isobaric analogue resonances in elastic scattering of polarized protons from ^{142}Nd, G. Clausnitzer, R. Fleischmann, G. Graw, D. Proetel and J. P. Wurm **A106** (1968) 99
Two particle coincidence spectra from the p+^{6}Li → p+d+α reaction, V. Valković, C. Joseph, S. T. Emerson and G. C. Phillips . . **A106** (1968) 138
Energy levels in ^{6}Li and ^{7}Li from inelastic proton scattering, G. S. Mani and A. D. B. Dix **A106** (1968) 251
Collective states in the odd nucleus ^{169}Tm from inelastic deuteron scattering, K. Fransson, H. Ryde, B. Herskind, G. D. Symons and A. Tveter **A106** (1968) 369
Binding energy of triton and n-d scattering lengths with separable potentials, V. F. Kharchenko, N. M. Petrov and S. A. Storozhenko **A106** (1968) 464
A study of the nuclear structure of ^{60}Ni by the ^{59}Ni(^{3}He, d)^{60}Ni and ^{60}Ni(p, p′)^{60}Ni reactions, R. W. Barnard and G. D. Jones **A106** (1968) 497
Elastic and inelastic scattering of fast neutrons from ^{6}Li and ^{7}Li, J. C. Hopkins, D. M. Drake and H. Condé **A107** (1968) 139
Inelastic electron scattering from the 3.56 MeV excited state of ^{6}Li, R. M. Hutcheon, T. E. Drake, V. W. Stobie, G. A. Beer and H. S. Caplan **A107** (1968) 266
Collective vibrational states in even erbium nuclei, P. O. Tjøm and B. Elbek **A107** (1968) 385
Inelastic scattering of fast neutrons from ^{197}Au, E. Barnard, J. A. M. de Villiers, C. A. Engelbrecht and D. Reitmann **A107** (1968) 612
Elastic scattering of deuterons by alpha particles, G. S. Mani and A. Tarratts **A107** (1968) 624
Measurements of the correlation parameter C_{NN} in proton-proton scattering, O. N. Jarvis, T. W. P. Brogden, B. Rose, J. P. Scanlon J. Ordhard-Webb and M. R. Wigan **A108** (1968) 63
Small-angle behaviour of the polarization in p-d elastic scattering, J. S. C. McKee, A. U. Luccio, R. J. Slobodrian and W. F. Tivol. . **A108** (1968) 177

Electron scattering and the spectroscopy of pseudo-nuclei, L. E. H. Trainor and R. K. Gupta **A108** (1968) 257
Differential cross section and polarization in p-α scattering from 22 to 25 MeV, P. Darriulat, D. Garreta, A. Tarrats and J. Testoni . . **A108** (1968) 316
A search for excited states in ^{3}He by the ^{3}He(p, p′)^{3}He* reaction, S. A. Harbison, F. G. Kingston, A. R. Johnston and E. A. McClatchie **A108** (1968) 478
A study of the nuclear structure of ^{29}Si by the ^{29}Si(p, p′)^{29}Si reaction, R. W. Barnard and G. D. Jones **A108** (1968) 655
Inelastic electron scattering at 180° on ^{12}C, G. A. Proca and D. B. Isabelle **A109** (1968) 177
Studies of (d, d) and (d, p) reactions with carbon isotopes at low bombarding energies, R. L. A. Cottrell, J. C. Lisle and J. O. Newton **A109** (1968) 288
Direct and compound nuclear reaction mechanisms in ^{26}Mg(p, p)^{26}Mg, O. Häusser, A. Richter, W. von Witsch and W. J. Thompson . . . **A109** (1968) 329
Inelastic deuteron scattering from ^{149}Sm, ^{150}Sm, ^{152}Sm and ^{154}Sm, E. Veje, B. Elbek, B. Herskind and M. C. Olesen **A109** (1968) 489
Partial proton widths of isobaric analogue states in ^{35}Ar, B. Bošnjaković and W. Bruynesteyn **A110** (1968) 233
Collective vibrational states in even dysprosium nuclei, T. Grotdal, K. Nybø, T. Thorsteinsen and B. Elbek **A110** (1968) 385
^{12}C-α elastic scattering and states of ^{16}O between 9.16 and 12.11 MeV, G. J. Clark, D. J. Sullivan and P. B. Treacy **A110** (1968) 481
Elastic scattering of polarized deuterons from ^{27}Al, Si and ^{60}Ni between 7 and 11 MeV, P. Schwandt and W. Haeberli **A110** (1968) 585
Inelastic electron scattering from ^{4}He, R. F. Frosch, R. E. Rand, H. Crannel, J. S. McCarthy, L. R. Suelzle and M. R. Yearian **A110** (1968) 657

3. Electromagnetic radiation

3.A *Gamma radiation*

Nuclear energy levels of ^{56}Fe from studies of the (p, p′γ) reaction, P. F. Hinrichsen, M. H. Shapiro and D. M. van Patter **A101** (1967) 81
Nuclear resonance scattering of gamma rays in Cu, Sn and Bi, M. Giannini, P. Oliva, D. Prosperi and G. Toumbev **A101** (1967) 145
Nuclear resonance fluorescence and Rayleigh scattering from ^{203}Tl, J. C. Palathingal and M. L. Wiedenbeck **A101** (1967) 193
Mesure absolue de la section efficace différentielle de diffusion cohérente des gamma de 662 keV dans le plomb, R. Quivy **A101** (1967) 417
Gamma-ray transitions in ^{106}Pd following the decay of ^{106m}Ag, J. K. Temperley and A. A. Temperley **A101** (1967) 641
The nuclear level structure of ^{74}As from a study of the ^{73}As(n, γ)^{74}As reaction, T. A. Siddiqi, N. Fiebiger and K. Stelzer **A101** (1967) 673
Thermal-neutron capture rays from natural magnesium and enriched ^{25}Mg, P. Spilling, H. Gruppelaar and A. M. F. op den Kamp . . **A102** (1967) 209
Thermal-neutron capture gamma rays from natural calcium, H. Gruppelaar and P. Spilling **A102** (1967) 226
Untersuchung von ^{179}Hf in der (n, γ) Reaktion, P. Manfrass, A. Andreeff, R. Kästner, W. Bondarenko, N. Kramer und P. Prokofjew **A102** (1967) 563
Untersuchung von ^{175}Yb in der (n, γ) Reaktion, W. Bondarenko, N. Kramer, P. Prokofjew, P. Manfrass, A. Andreeff und R. Kästner **A102** (1967) 577
Energy of the isomeric transition in ^{109}Ag, F. J. Schima and J. M. R. Hutchinson **A102** (1967) 667
The half-lives of natural ^{176}Lu and ^{180}Ta, K. Sakamoto **A103** (1967) 134
The high-energy decay of ^{65}Zn, D. de Frenne, M. Dorikens, L. Dorikens-Vanpraet and J. Demuynck **A103** (1967) 203

Messung des E2/M1 Mischungsverhältnisses von 2^+-2^+ Übergängen in ^{83}Kr, ^{106}Pd, ^{122}Te, ^{192}Pt und ^{198}Hg, J. Koch, F. Münnich und U. Schötzig **A103** (1967) 300
Levels in ^{106}Pd from decay of 8.5d ^{106m}Ag, 24 min ^{106g}Ag and 30 sec ^{106g}Rh, P. V. Rao and R. W. Fink **A103** (1967) 385
The radionucleide ^{101}Ag, D. R. Doty, P. Charoenkwan, J. W. Sunier and J. R. Richardson **A103** (1967) 404
The new radioisotope ^{99}Ag and some measurements on ^{100}Ag, D. R. Doty, J. R. Richardson and J. W. Sunier. **A103** (1967) 417
Gamma rays from the reaction ^{55}Mn(p, nγ)^{55}Fe, K. V. K. Iyengar, B. Lal and S. K. Gupta **A103** (1967) 592
Decay of 9.6d ^{125}Sn to levels of ^{125}Sb, J. F. Wild and W. B. Walters . **A103** (1967) 601
Activation cross sections of Mo isotopes for 14.1 MeV neutrons, P. Cuzzocrea, E. Perillo and S. Notarrigo **A103** (1967) 616
The decay of ^{147}Nd, M. J. Canty and R. D. Connor **A104** (1967) 35
Excited states in ^{115}In, J. McDonald, D. Porter and D. T. Stewart . . **A104** (1967) 177
Hindered E1 transitions in ^{169}Dy, ^{165}Tm, ^{175}Lu, ^{173}Lu and ^{190}W, T. W. Conlon, R. A. Naumann and A. L. McCarthy **A104** (1967) 213
Ge(Li)-NaI(Tl) studies of the decay of ^{117}Te, G. Berzins, W. H. Kelly, G. Graeffe and W. B. Walters **A104** (1967) 241
Ge(Li)-NaI(Tl) angular correlation studies of gamma cascades in the decay of ^{119m}Te, G. Berzins and W. H. Kelly **A104** (1967) 263
Collective states in ^{59}Co, R. Nordhagen, B. Elbek and B. Herskind . **A104** (1967) 353
A study of the decay of 2.5 min ^{180}Re, P. F. A. Goudsmit, J. Konijn and F. W. N. de Boer **A104** (1967) 497
Note on the energy of the isomeric transition in ^{109}Ag, W. R. Pierson and R. H. Marsh **A104** (1967) 511
The nuclear g-factors of the $\frac{5}{2}^-[523]\frac{5}{2}$ states in ^{237}Np and ^{239}Np and the level structure of ^{237}Np, C. Günther and D. R. Parsignault. . . . **A104** (1967) 588
Coincidence and directional correlation measurements on the decay of ^{156}Tb(5.3 d), P. F. Kenealy, E. G. Funk and J. W. Mihelich . . **A105** (1967) 522
Nuclear energy states of ^{155}Eu, G. P. Agin, C. E. Mandeville and V. R. Potnis **A105** (1967) 698
The decay of 8 d ^{106m}Ag, H. W. Taylor, N. Neff and J. D. King . . **A106** (1968) 49
Levels in ^{134}Ba populated by the decay of ^{134}Cs, A. Abdul-Malek and R. A. Naumann **A106** (1968) 225
Investigation of gamma-rays in the decay chain ^{149}Gd → ^{149}Eu → ^{149}Sm, I. Adam, K. S. Toth and R. A. Meyer **A106** (1968) 275
Gamma spectrum of ^{106m}Ag, J. A. Moragues, P. Reyes-Suter, T. Suter and M. Pérez **A106** (1968) 289
Decay of ^{139}Pr, D. de Frenne, J. Demuynck, K. Heyde, E. Jacobs, M. Dorikens and L. Dorikens-Vanpraet **A106** (1968) 350
The decay of ^{185}Ir and ^{185m}Ir, K. J. Hofstetter and P. J. Daly . . . **A106** (1968) 382
A short-lived isomer ^{194m}Ir, A. Lundán and A. Siivola **A106** (1968) 417
Determination of the parity of the 305 keV state of ^{48}V by linear polarization correlation measurements, P. Weight, P. Herzog, H. Hübel and E. Bodenstedt **A106** (1968) 570
Circular polarization of neutron-capture gamma rays from ^{65}Zn, ^{66}Zn and ^{57}Fe, R. Schaub and W. Schuler **A107** (1968) 14
Decay of 13.5 h ^{109g}Pd to levels of ^{109}Ag, G. Graeffe and G. E. Gordon **A107** (1968) 67
The parity of excited $I = 0$ states in ^{144}Nd and ^{178}Hf, H. Hübel, W. Kesternich, P. Weigt and E. Bodenstedt **A107** (1968) 106
Nuclear states of ^{143}Pr, D. G. Megli, V. R. Potnis and C. E. Mandeville **A107** (1968) 117
Determination de l'énergie de quelques transitions γ, J. Legrand, J. P. Boulanger et J. P. Brethon **A107** (1968) 177

A (p, γ/) study of the decay of isospin analogue resonances from 13-16 MeV in ^{89}Y, S. M. Shafroth and G. J. F. Legge A107 (1968) 181
Transitions in ^{135}Cs from the decay of ^{135}Ba, A. Notea and Y. Gurfinkel A107 (1968) 193
Nuclear energy states of ^{171}Tm, D. G. Megli, G. P. Agin, V. R. Potnis and C. E. Mandeville A107 (1968) 217
Angular correlation studies in ^{48}Ti, C. W. Lewis, J. N. Mo, C. F. Monahan, M. F. Thomas and P. J. Twin A107 (1968) 273
Decay of ^{109}Cd, L. V. East, H. M. Murphy, Jr. and E. R. Lewis . . . A107 (1968) 382
Decay of ^{144}Pr to levels in ^{144}Nd, S. Raman A107 (1968) 402
Capture radiative de neutrons thermiques dans ^{48}Ti, P. Carlos, J. Matuszek, A. Audias, B. P. Maier, N. Nifenecker, G. Perrin and R. Samama A107 (1968) 436
Decay scheme of 42 min ^{123}Sn and 10 min ^{123m}Sn, P. A. Baedecker and W. B. Walters A107 (1968) 449
Decay of ^{242}Pu, W. R. Daniels, D. C. Hoffman, F. O. Lawrence and C. J. Orth A107 (1968) 569
The decay of ^{139}U, D. R. Mackenzie and R. D. Connor A108 (1968) 81
The decay of ^{90}Nb, H. Pettersson, S. Antman and Y. Grunditz . . . A108 (1968) 124
Low-energy gamma-ray intensities in the decay of ^{153}, ^{154}, ^{155}, ^{156}Eu, P. Alexander A108 (1968) 145
High-resolution studies in the decay of ^{133}Ba with semiconductor counters, H. E. Bosch, A. J. Haverfield, E. Szichman and S. M. Abecasis A108 (1968) 209
Etude des niveaux excités du ^{133}La. Existence possible de niveaux déformés, C. Gerschel A108 (1968) 337
Energy levels in ^{185}Re from the ^{181}Ta(^{4}He, 2nγ)^{183}Re reaction, J. O. Newton A108 (1968) 353
Energy levels in some doubly even barium isotopes, A. Abdul-Malek and R. A. Naumann A108 (1968) 401
The decay scheme of ^{165}Tm, W. Kurcewicz, Z. Moroz, Z. Preibisz and B. Schmidt Nielsen A108 (1968) 434
Level structure of ^{117}In from the decay of ^{117}Cd, V. R. Pandharipande, K. G. Prasad, R. P. Sharma and B. V. Thosar A109 (1968) 81
The decay of 9.7 min ^{115}Sn, G. Berzins and R. L. Auble A109 (1968) 316
The decay of ^{97}Zr, A. Siivola and G. Graeffe A109 (1968) 369
The decay of ^{97}Nb, G. Graeffe and A. Siivola A109 (1968) 380
Excited states in ^{111}Cd, J. McDonald and D. Porter A109 (1968) 529
Energy levels of ^{99}Nb populated by the decay of ^{99}Mo, J. A. Cooper, J. M. Hollander and J. O. Rasmussen A109 (1968) 603
Internal pair formation and multipolarity of nuclear transitions, R. J. Lombard, C. F. Pedrisat and J. H. Brunner A110 (1968) 41
Electron-gamma directional correlation experiments in ^{75}As, H. Vignau, A. Mocoroa, R. Orthaz and N. Baade A110 (1968) 56
Energy levels of $^{210}_{84}$Po populated by the decay of $^{210}_{85}$At, S. G. Prussin and J. M. Hollander A110 (1968) 176
Calculated gamma transitions between ^{16}O levels, S. Shlomo and R. Moreh A110 (1968) 204
Decay of ^{145}Sm, D. de Frenne, K. Heyde, L. Dorikens-Vanpraet, M. Dorikens and J. Demuynck A110 (1968) 273
(γ, 2n), (γ, αn) and (γ, α2n) reactions on ^{65}Cu and the decay of ^{56}Co, J. C. Ritter, R. E. Larson and J. I. Hoover A110 (1968) 463
Coincidence measurements on the decay of ^{169}Tm(87 d), P. F. Kenealy, E. G. Funk and J. W. Mihelich A110 (1968) 561
Decay of the 55 min and 12 min ^{133}Te isomers, B. Parsa, G. E. Gordon and W. B. Walters A110 (1968) 674

3.B *Internal conversion*

M-subshell internal conversion coefficients. Comparison of present calculations with experiments for E2 transitions, O. Dragoun and P. Jahn **A101** (1967) 305
Conversion electron measurements of transitions following the beta decay of ^{131m}Te, L. M. Beyer and W. H. Kelly **A104** (1967) 274
Internal conversion M/L and (N+O)/M ratios for E2 transitions, M. Bogdanović, M. Mladjenović and R. Stepić **A106** (1968) 209
Transitions in ^{135}Cs from the decay of ^{135}Ba, A. Notea and Y. Gurfinkel **A107** (1968) 193
Conversion electrons of ^{188}Re following neutron capture, A. A. Suarez, T. von Egidy, W. Kaiser, H. F. Mahlein and A. Jones **A107** (1968) 417
The atomic screening in internal L-conversion calculations, H.-C. Pauli **A109** (1968) 94
Electron-gamma directional correlation experiments in ^{75}As, H. Vignau, A. Mocoroa, R. Orthaz and N. Baade **A110** (1968) 56
Negatons and conversion electrons from the decay of ^{96}Nb, S. Antman, H. Pettersson and Y. Grunditz **A110** (1968) 289

3.C *Extranuclear effects*

Energie de la transition isomérique dans ^{109}Ag, J. Libert. **A102** (1967) 477
Spectre d'électrons Auger K du lutétium, J. Gizon et J. Boutet . . **A103** (1967) 9
Polarization of nuclei by interaction with electron shells, V. A. Djrbashian **A103** (1967) 177
A study of the L- and K-Auger spectra of $^{113}_{49}$In from $^{113}_{50}$Sn, R. J. Kriciokaitis and S. K. Haynes **A104** (1967) 466
Intensités relatives des raies d'électrons Auger K du thulium, J. Gizon **A108** (1968) 425
Effects of carbon impurities on the intensity ratios of the Mössbauer spectrum of metallic iron, S. Shechter and M. Ron **A109** (1968) 588

4. Beta decay; parity

4.A *General theory*

Analysis of unique beta transitions, B. Eman, F. Krmpotić, D. Tadić and A. Nielsen **A104** (1967) 386
ft values of superallowed 0-0 transitions, H. Behrens and W. Bühring **A106** (1968) 433
Korrektureffekte in der Theorie der inneren Bremsstrahlung, D. Gebhardt **A107** (1968) 593
Untersuchung der inneren Bremsstrahlung von ^{32}P und ^{90}Y (Winkelkorrelation und Spektrum), W. Kreische, W. Lampert und G. Loos **A107** (1968) 601
Proposed experimental test of the "elementary particle" treatment of complex nuclei, R. Grismore **A108** (1968) 1
Correct use of conserved vector current theory in first-forbidden β-decay of ^{170}Tm, D. Bogdan and I. Văță **A109** (1968) 347

4.B *Formulation of Fermi theory*

Fermi functions for superallowed beta decays and the value of G_V, R. J. Blin-Stoyle and S. C. K. Nair **A105** (1967) 640

4.C *Evaluation of matrix elements*

Second-forbidden contributions to allowed isospin hindered $J \to J$ transitions, R. Coussement and L. van Neste **A102** (1967) 363
Spin polarization effect on the fast allowed beta transitions between deformed odd-mass nuclei, Z. Bochnacki and S. Ogaza **A102** (1967) 529
An upper limit for the positon decay of ^{54}Mn, D. Berényi, D. Varga, B. Vasvári and E. Brücher **A106** (1968) 248

Effect of the spin-quadrupole force on the rate of β-decay to collective states of even deformed nuclei, A. A. Kuliev and N. I. Pyatov **A106** (1968) 689

4.D K-*capture*

Electron capture ratios in the decay of ^{83}Rb, ^{84}Rb ^{131}Cs and ^{185}Os, G. Schulz **A101** (1967) 177
Allowed K-capture to positon emission ratios in the decays of ^{49}V and ^{52}Mn, J. Konijn, W. H. G. Lewin, B. van Nooijen, H. F. van Beek, S. A. de Wit and E. W. A. Lingeman **A102** (1967) 129
L-electron capture decay of ^{194}Hg, B. Crasemann, V. O. Kostroun, P. V. Rao and G. Stephas **A103** (1967) 145
Electron capture ratios in the decay of ^{105}Ag, G. Schulz and K. Ziegler **A104** (1967) 692
Comparison with theory of experimental values of L/K orbital electron capture ratios for allowed and first-forbidden transitions, R. W. Fink **A110** (1968) 379

4.E *Analysis of data*

Decay of ^{47}Ca, S. T. Hsue, M. U. Kim, L. M. Langer, E. H. Spejewski and J. B. Willett **A101** (1967) 688
The (0^+)-(0^+) beta transition in ^{154}Eu, L. van Neste, R. Coussement and J. P. Deutsch **A102** (1967) 369
β-γ(CP) correlation studies of ^{72}Ga and spin assignments in ^{72}Ge, K. G. Tirsell and S. D. Bloom **A103** (1967) 461
Activation cross sections of Mo isotopes for 14.1 MeV neutrons, P. Cuzzocrea, E. Perillo and S. Notarrigo **A103** (1967) 616
Beta-gamma circular polarization correlation in the decay of ^{48}V, B. van Nooijen, A. Meulenberg, Jr., A. V. Ramayya, J. H. Hamilton and J. J. Pinajian **A106** (1968) 129
An upper limit for the positon decay of ^{54}Mn, D. Berényi, D. Varga, B. Vasvári and E. Brücher **A106** (1968) 248
Korrektureffekte in der Theorie der inneren Bremsstrahlung, D. Gebhardt **A107** (1968) 593
Untersuchung der inneren Bremsstrahlung von ^{32}P und ^{90}Y (Winkelkorrelation und Spektrum), W. Kreische, W. Lampert und G. Loos **A107** (1968) 601
Matrix element cancellation in the beta decay of ^{141}Ce and ^{199}Au, H. Beekhuis and R. J. van Duinen **A108** (1968) 382
Radioactivité β de ^{19}Ne, ^{23}Mg, ^{25}Si et ^{27}Mg, S. Gorodetzky, E. Aslanides, A. Gallmann et G. Frick **A109** (1968) 417
The beta decay of ^{134}Cs, S. T. Hsue, M. U. Kim, L. M. Langer and E. H. Spejewski **A109** (1968) 423
The ^{22}Na positon spectrum, H. Wenninger, J. Stiewe and H. Leutz **A109** (1968) 561

5. Alpha decay

$^{193-209}$Po isotopes produced through heavy ion bombardments, A. Siivola **A101** (1967) 129
New mercury isotopes, A. G. Demin, T. Fényes, I. Mahunka, V. G. Subbotin and L. Trón **A106** (1968) 337
On the nuclear properties of the isotopes ^{254}103 and ^{257}103, G. N. Flerov, Yu. S. Korotkin, V. L. Mikheev, M. B. Miller, S. M. Polikanov and V. A. Stchegolev **A106** (1968) 476
Level structure of ^{235}U observed by a study of the alpha decay of ^{239}Pu, J. E. Cline **A106** (1968) 481
The decay of ^{251}Cf, A. Chetham-Strode, Jr., R. J. Silva, J. R. Tarrant and I. R. Williams **A107** (1968) 645
Alpha-active gold isotopes, A. Siivola **A109** (1968) 231

6. Methods and instruments

6.B *Theoretical*

A note on orthogonality and completeness of the rotation matrices, J. E. Jonker and E. de Vries **A105** (1967) 621
Questions of method in the consistency problem of quantum mechanics, L. Rosenfeld **A108** (1968) 241
Comments on a recent paper concerning the quantum theory of measurement, A. Loinger **A108** (1968) 245
On irreducible tensors of O_h^+, C. C. Noack **A108** (1968) 493
A note on the SU_2 coupling coefficients in the 2s-1d shell, T. Sebe . . **A109** (1968) 65
Distribution laws for the roots of a random antisymmetric Hermetian matrix, M. L. Mehta and N. Rosenzweig **A109** (1968) 449

6.C *Constants, standards and units*

The K-shell fluorescence yield of phosphorus, J. Pahor, A. Kodre and A. Moljk **A109** (1968) 62

8. Fundamental interactions

8.B *Electromagnetic interactions*

8.B.4 *Electron and muon interactions with nuclei*

Nuclear dynamics and the X-ray spectrum of muonic atoms, W. Pieper and W. Greiner **A109** (1968) 539

10. News Items

10.C *Obituaries*

Marie Curie-Sklodowska (1867-1934), M. Guillot **A103** (1967) 1

10.D *Book reviews*

ALDER, K. and A. WINTHER, Coulomb excitation (L.R.) **A105** (1967) 705
Encyclopedic dictionary of physics, vol. 2 (L.R.) **A106** (1968) 697
FARLEY, F. J. M., (ed.), Progress in nuclear techniques and instrumentation, vol. 2 (L.R.) **A106** (1968) 697
FERZIGER, J. H. and P. H. ZWEIFEL, The theory of neutron slowing down in nuclear reactors (P. L. Ølgaard) **A103** (1967) 692
GORTER, C. J., (ed.), Progress in low-temperature physics, vol. 5 (L.R.) **A106** (1968) 697
GUELFAND, I. M. et N. Y VILENKIN, Les distributions: Tome 4. Applications de l'analyse harmonique (L.R.) **A105** (1967) 705
HUBER, P. and H. SCHOPPER (eds.), Proc. of the 2nd internat. symposium on polarization phenomena of nucleons (L.R.) **A101** (1961) 699
JOURNAL OF PLASMA PHYSICS (ed. by J. P. Doughtery) (L.R.) . . . **A101** (1967) 699
KUNZ, W. and J. SCHINTLMEISTER, Nuclear tables (II). Nuclear reactions (L.R.) **A105** (1967) 705
LOUCKS, T. L., Augmented plane wave method (L.R.) **A105** (1967) 705
MAGNUS, W., F. OBERHETTINGER and R. P. SONI, Formulas and theorems for the special functions of mathematical physics (L.R.) . . **A106** (1968) 697
MILTON ASH, Optical shutdown control of nuclear reactors (P. L. Ølgaard) **A103** (1967) 692
MUTH, H., (ed.), Biophysikalische Probleme der Strahlenwirkung (M. Faber) **A103** (1967) 693
Proceedings of the XIIIth Conference on High Energy Physics, Berkeley 1966 (L.R.) **A106** (1968) 698

SEGRÉ, E., (ed.), Annual review of nuclear science, vol. 16. . . . . **A106** (1968) 697
SOLAR PHYSICS (ed. by C. J. de Jager and Z. Soestka) (L.R.) . . . **A101** (1967) 699
STICKLAND, A. C., (ed.), Reports on progress in physics, vol. 29 (L.R.) **A106** (1968) 697
URBAN, P., (ed.), Elementary particle theories (L.R.) **A101** (1967) 699
VAN DER WAERDEN, B. L., (ed.), Sources of quantum mechanics (L.R.) **A106** (1968) 698

10.E *Errata*

ARANOFF, S. and J. K. PERCUS, Nucl. Phys. **A98** (1967) 263 . . . . **A101** (1967) 698
DA PROVIDÊNCIA, J., Nucl. Phys. **A83** (1966) 209 . . . . . **A110** (1968) 696
KAMIMURA, M. *et al.*, Nucl. Phys. **A95** (1967) 129 . . . . . **A101** (1967) 698
KIRSON, W., Nucl. Phys. **A99** (1967) 353 . . . . . **A107** (1968) 695
KÜMMEL, H, *et al.*, Nucl. Phys. **81** (1966) 129 . . . . . **A107** (1968) 695
LODHI, M. A. K., Nucl. Phys. **A97** (1967) 449. . . . . **A101** (1967) 698
MÜLLER, KH., Nucl. Phys. **A103** (1967) 513 . . . . . **A110** (1968) 695

Books in Plasma Physics

Plasma Diagnostics

Editor: W. LOCHTE-HOLTGREVEN, Institute for Experimental Physics, University of Kiel

1968. 946 pages. Hfl. 125.— (292 s.)

CONTENTS: *J. Richter*, Radiation of hot gases (thermal and non-thermal). *G. Traving*, Interpretation of line broadening and line shift. *W. Lochte-Holtgreven*, Evaluation of plasma parameters. *H. Zwicker*, Evaluation of plasma parameters in optically thick plasmas. *W. Lochte-Holtgreven* and *J. Richter*, Quantitative spectroscopy and spectral photometry. *R. Lincke*, Vacuum ultraviolet spectroscopy. *P. Bogen*, X-ray diagnostics of plasmas. *H. Hermansdorfer*, Microwave diagnostic techniques. *H. J. Kunze*, The laser as a tool for plasma diagnostics. *W. Bötticher*, Measurement of magnetic fields in plasmas. *L. Schott*, Electrical probes. *R. L. F. Boyd*, Langmuir probes on spacecraft. *H. W. Drawin*, Mass spectrometry of plasmas. Collision and transport cross-sections. Evaluation of electrical conductivity, heat conductivity and viscosity of plasmas. Index.

Theoretical Methods in Plasma Physics

N. G. VAN KAMPEN and B. U. FELDERHOF, Institute for Theoretical Physics, University of Utrecht

1967. 225 pages. Hfl. 30.— (70s.)

The main topics treated are:

Discussion of the equations of magnetohydrodynamics with a large variety of stationary solutions. Waves in magnetohydrodynamics. Theory of magnetohydrodynamic stability. Statistical mechanics of a hot ionized gas. Many-component theory. Waves in cold plasmas. Vlasov-plasmas, with a detailed discussion of the theory of longitudinal and transverse waves as developed by the authors. Waves propagating along a magnetic field; micro-instabilities. Collisions in a hot electron gas.

We read in Nature:

"... recommended to any worker in this field."

AMSTERDAM P.O. BOX 3489 **NORTH HOLLAND** PUBLISHING CO. NETHERLANDS

Sole distributors for the Western Hemisphere: Wiley Interscience Division, John Wiley & Sons, Inc., New York

North-Holland Books in Nuclear Physics

Nuclear and Particle Physics

E. B. PAUL, National Physical Laboratory, Teddington, England

1969. 504 pages. Hfl. 50.– (117s.)

Shell-Model. Approach to Nuclear Reactions

C. MAHAUX, University of Liège, Belgium, and H. A. WEIDENMÜLLER, University of Heidelberg, Germany

1969. 347 pages. Hfl. 50.– (117s.)

Spectroscopic and Group Theoretical Methods in Physics

(Racah Memorial Volume)

F. BLOCH, S. G. COHEN, A. DE-SHALIT, S. SAMBURSKY and I. TALMI (Editors)

1968. 472 pages. Hfl. 72.– (168s.)

Semiconductor Detectors

G. BERTOLINI, Euratom Joint Nuclear Research Center, Ispra, Italy, and A. COCHE, Faculté des Sciences de Strasbourg et Centre de Recherches Nucléaires de Strasbourg-Cronenbourg, France (Editors)

1968. 529 pages. Hfl. 72.– (168s.)

Nuclear Matter and Nuclear Reactions

KEN KIKUCHI, Nagoya University, and MITSUJI KAWAI, Tokyo Institute of Technology

1968. 342 pages. Hfl. 50.– (117s.)

Nuclear Reaction Analysis

Graphs and Tables

J. B. MARION and F. C. YOUNG, University of Maryland

1968. 177 pages. Hfl. 36.– (84s.)

Niels Bohr, His Life and Work as seen by his Friends and Colleagues

S. ROZENTAL (Editor)

2nd printing 1968. 355 pages. Hfl. 18.– (42s.)

Sources of Quantum Mechanics

with a historical introduction by the Editor

B. L. VAN DER WAERDEN, University of Zürich (Editor)

2nd printing 1968. 442 pages. Hfl. 50.– (117s.)

In preparation:

Isospin in Nuclear Physics

D. H. WILKINSON, University of Oxford, England

1969. Approximately 800 pages. Approximately Hfl. 145.– (338s.)

AMSTERDAM P.O. BOX 3489 **NORTH HOLLAND** PUBLISHING CO. NETHERLANDS

Sole distributors for the Western Hemisphere: Wiley Intersience Division, John Wiley and Sons, Inc., New York